373

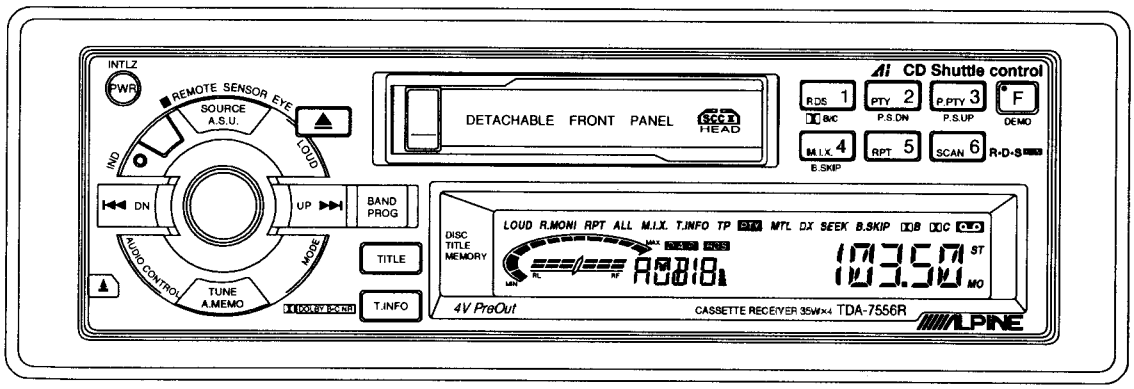
ALPINE®

SERVICE MANUAL

FM/MW/LW/RDS Cassette Receiver

CD Shuttle Controller

- The model described in this manual is developed from Model TDM-7531R/TDM-7532R/TDM-7535R. For information that is not mentioned in this service manual, refer to the Service Manual • TDM-7531R/TDM-7532R/TDM-7535R (Part No. 68E21961S01).
- For the cassette deck mechanism parts (GR75S120/130) of this model, refer to the Service Manual • GR-S Series (Part No. 68E23241S01).



(TDA-7556R)

TDA-7556R/TDA-7659R/ TDA-7552R/TDA-7550R

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Specifications

NOTE: Refer to the Service Manual • TDM-7531R/7532R/7535R (Part No. 68E21961S01) for description not mentioned in this manual.

TAPE PLAYER

S/N Ratio (Volume Display 22 Position) ..... Dolby OFF: 52dB
Dolby B • NR : 60.5dB
Dolby C • NR : 67dB (○●△)

GENERAL

Power Output (T.H.D. 10%)/Impedance ..... 16W/ch/4ohm (○△□)
Pre Output Voltage/Impedance 1V/10kohm
Dimensions (W×H×D) ..... Chassis : 178×50×152mm
Nose : 170×46×18mm
Weight 1.4kg

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.
○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only Others : Common.

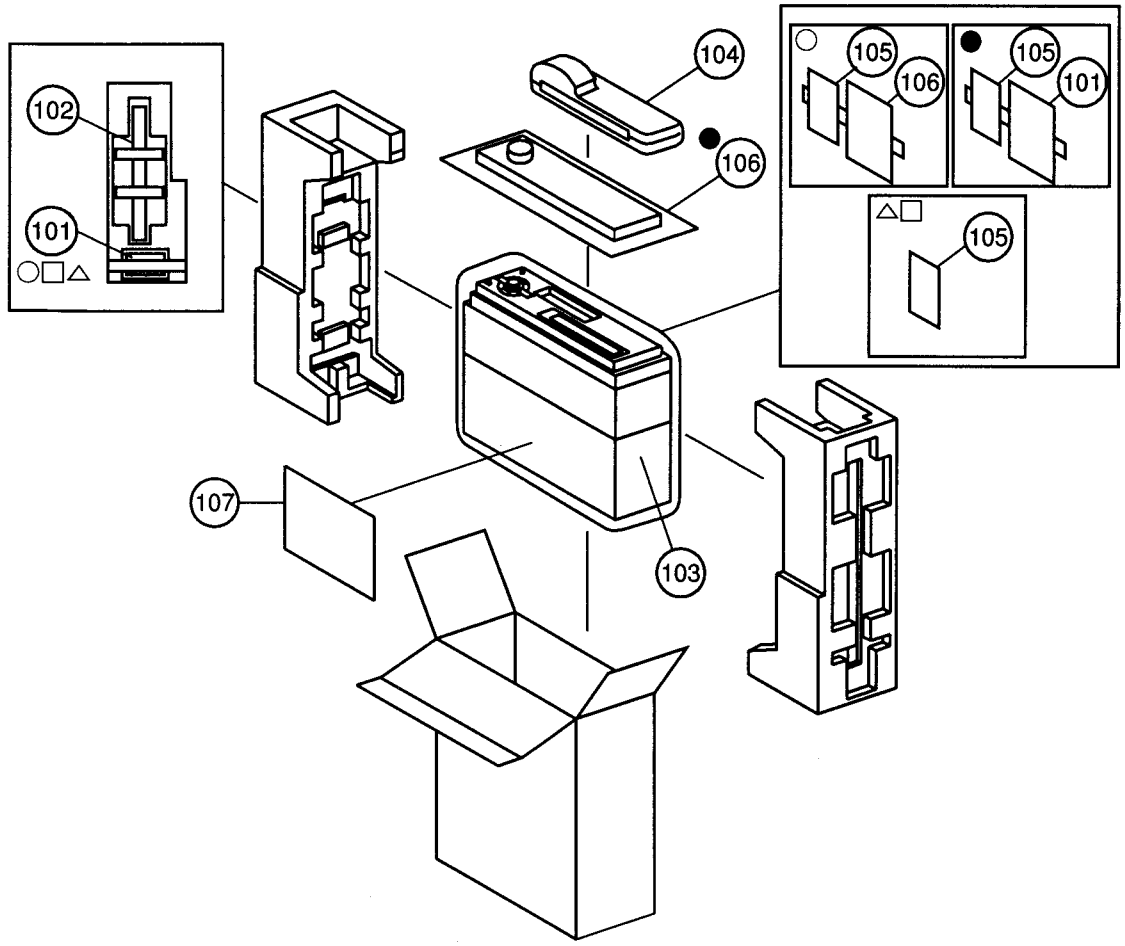
Packing Assembly Parts List

Symbol No.	Part No.	Description
101-1	02B47353F01	Nut, Hex. (M5)
101-2	03S72235F13	Screw, Countersink (M5X8)
101-3	46A42363F01	Stud, Bolt
101-4	36A11113W01	Cap, Rubber (A)
101-5	03A11112W01	Bolt, Hex. (M5) (A)
101-6	01T75363W01	ISO / JASO Antenna Adapter
○ 101-7	60S70585F01	Battery, Lit. 3V (CR2025)
● 101-7	60T55630W01	Battery, MGN R03(NB)UM-4
102	07B64552F01	Bracket, Strap Receiver
103	15D50406W01	Case, Inner

Symbol No.	Part No.	Description
104	15D60773W01	Carrying, Case
○ 105	01T85297W01	Assy., ISO Wire
● 105	01T85297W02	Assy., ISO Wire
△ 105	01T85297W01	Assy., ISO Wire
□ 105	01T85297W01	Assy., ISO Wire
○ 106	01T75235W05	Assy., Card Remocon
● 106	01T75436W01	Unit, Remocon
107	68P80683W20	Owner's Manual

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

Packing Method View



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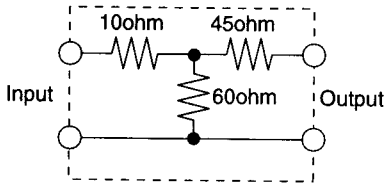
Adjustment Procedures

1. FM SECTION

(1) Dummy Antenna Circuit



For 50 ohm FM Signal Generator

Figure 1

(2) Connections

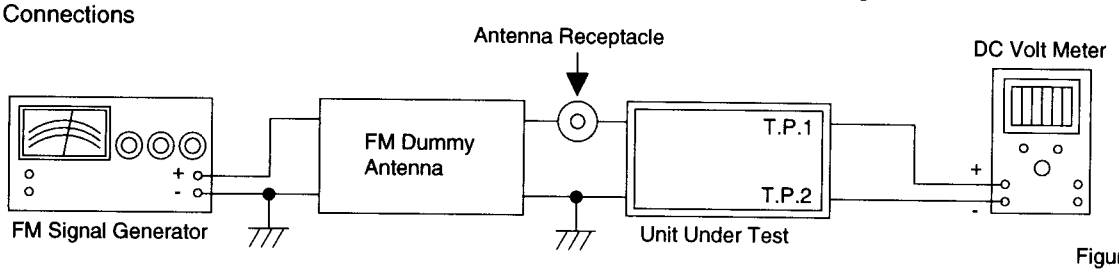


Figure 2

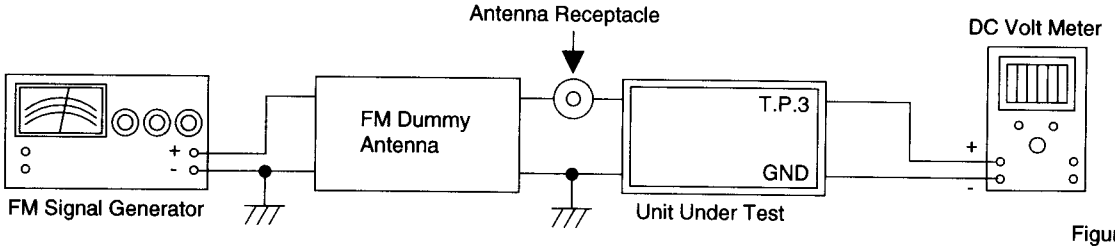


Figure 3

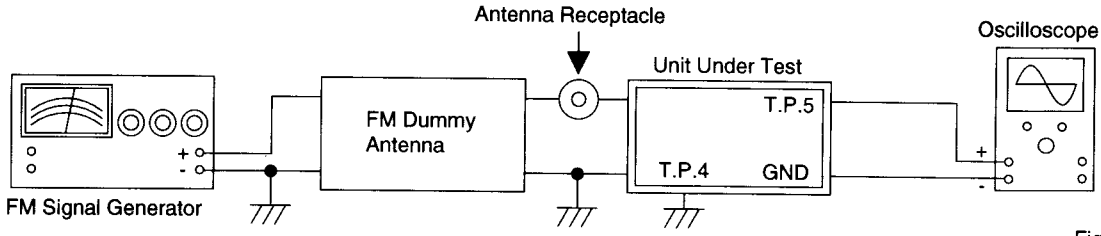


Figure 4

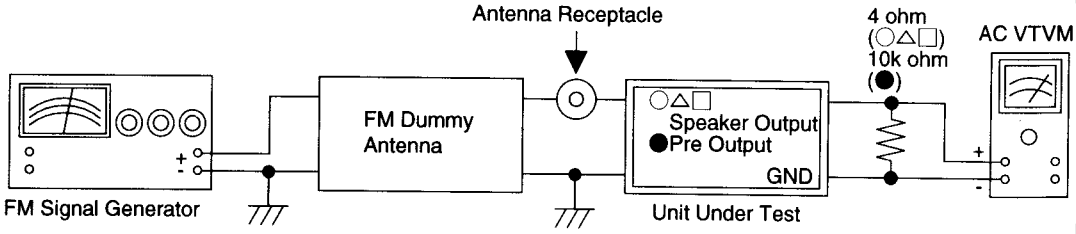


Figure 5

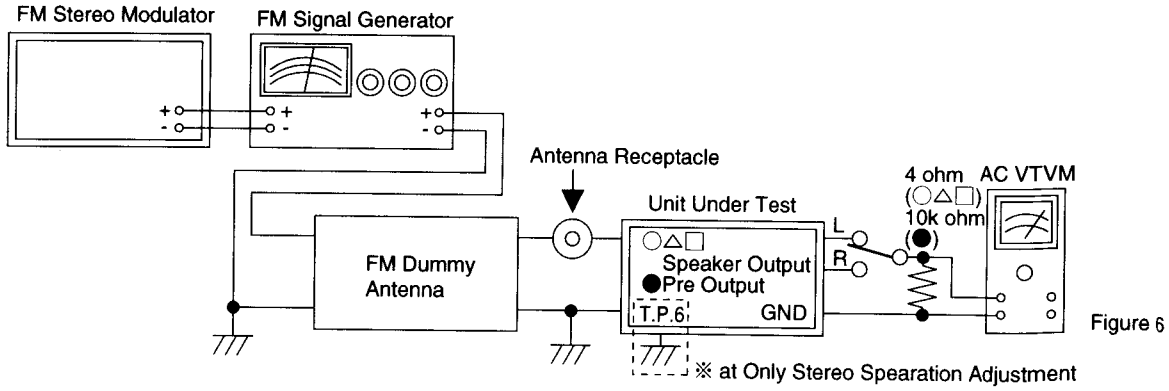
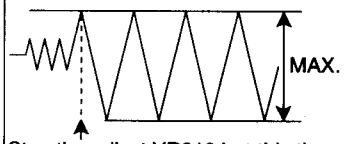


Figure 6

(3) Control Settings

Power Switch ..... ON
Fader Control ..... Center Position
Balance Control ..... Center Position
Treble/Bass Control ..... Center Position
Band Switch ..... FM
Others ..... OFF

(4) Adjustment Procedures

Step	Description		Connection	Signal Generator	Dial Control	Test Point	Adjustment
1	IF Adjustment		Figure 2	98.1MHz, 72dB (Mod. OFF)	98.1MHz	T.P.1 T.P.2	Adjust L2101 to 0±15mV.
2	Signal Meter Adjustment		Figure 3	98.1MHz, 46dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	T.P.3	Adjust VR2101 to 3.5±0.1V.
3	Seek Stop Adjustment		Figure 4	98.1MHz, 30dB (Mod. OFF)	98.1MHz	T.P.4 T.P.5	Adjust VR2104 for the waveform changing to maximum output. Figure : Waveform of T.P.5 output.  Stop the adjust VR2104 at this time.
4	Noise Level Adjustment	(1)	Figure 5	98.1MHz, 72dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	○△□ Speaker Output	Adjust VOLUME to obtain 2V output. This value is 0dB.
						●Pre Output	Adjust VOLUME to obtain 400mV output. This value is 0dB.
		(2)	Figure 5	98.1MHz, -19dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	○△□ Speaker Output ●Pre Output	Adjust VR2105 to -25±3dB output at SG level minimum.
5	Stereo Blend Adjustment (Lch)		Figure 6	98.1MHz, 40dB (Mod. 1kHz, Dev. 36kHz, Stereo, Lch Only)	98.1MHz	○△□ Speaker Output ●Pre Output	Adjust VR2102 for Lch and Rch output level difference to be 8±2dB.
6	Stereo Separation Adjustment (Lch)		Figure 6	98.1MHz, 72dB (Mod. 1kHz, Dev. 36kHz, Stereo, Lch Only)	98.1MHz	○△□ Speaker Output ● Pre Output	T.P.6	Adjust VR2103 for Rch output to be minimum, and confirm Lch and Rch output level difference is more than 20dB.
7	Stereo Blend Adjustment (Rch)		Figure 6	98.1MHz, 40dB (Mod. 1kHz, Dev. 36kHz, Stereo, Rch Only)	98.1MHz	○△□ Speaker Output ●Pre Output	Proceed same adjustment under step 5.
8	Stereo Separation Adjustment (Rch)		Figure 6	98.1MHz, 72dB (Mod. 1kHz, Dev. 36kHz, Stereo, Rch Only)	98.1MHz	○△□ Speaker Output ● Pre Output	T.P.6	Proceed same adjustment under step 6 by alternating Lch and Rch.

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2. TAPE PLAYER SECTION

(1) Connection

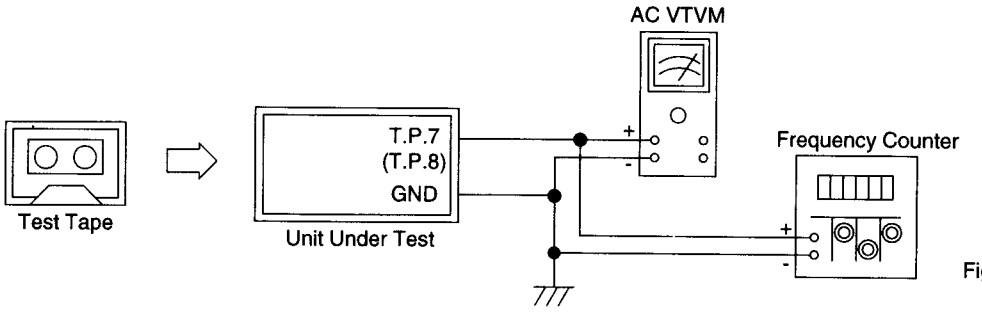


Figure 7

(2) Control Settings

Power Switch ..... ON
Fader Control ..... Center Position
Balance Control ..... Center Position
Treble/Bass Control ..... Center Position
Others ..... OFF

(3) The necessaries for adjustment

GR-S Extension Cord
Assy., EX Cord Kit for GR-S Mechanism
Part No. 01E23255S01
See Adjustment Locations (Figure 10).

(4) Adjustment Procedures

Step	Description	Test Tape	Connection	Test Point	Adjustment Point	Adjustment
1	Head Azimuth Adjustment	MTT-114NB (14kHz)	Figure 7	T.P.7 (Lch) T.P.8 (Rch)	Head Azimuth Adjustment Screws (Figure 8)	Adjust for Max. and same level output at Forward and Reverse positions.
2	Dolby Level Adjustment	MTT-150 (400Hz)	Figure 7	T.P.7 (Lch) T.P.8 (Rch)	VR201 (Lch) VR202 (Rch)	Adjust for 388mV ±1dB at T.P.7 (Lch) and T.P.8 (Rch).
3	Tape Speed Adjustment	MTT-111N (3kHz)	Figure 7	T.P.7 (Lch) or T.P.8 (Rch)	Tape Speed Adjustment (Figure 9)	Adjust for 2,970 to 3,090Hz at T.P.7 (T.P.8).

Adjustment Locations

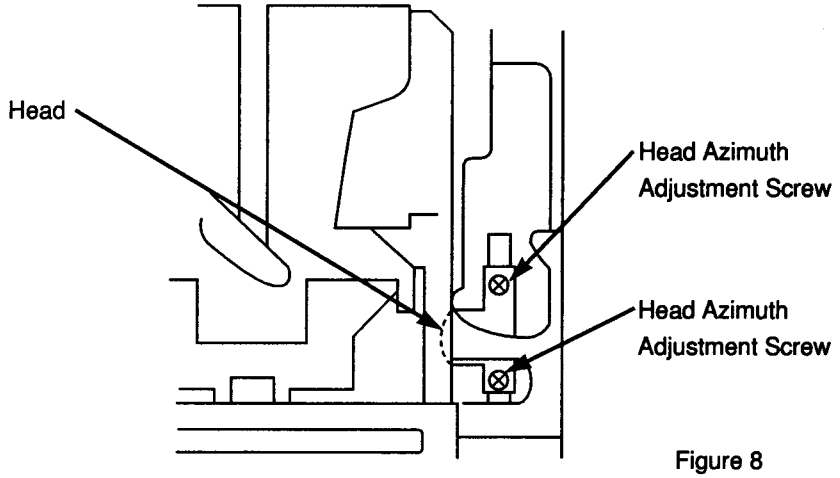


Figure 8

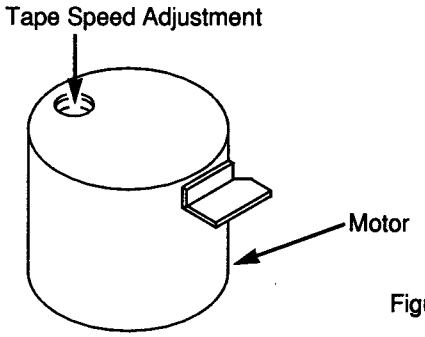
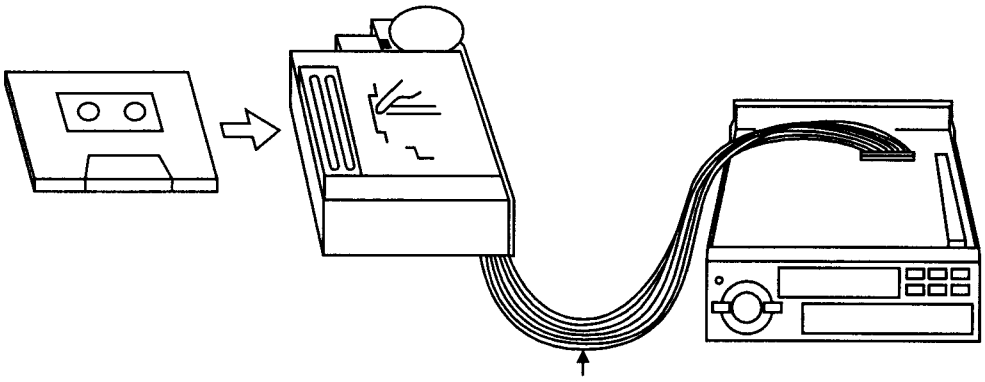


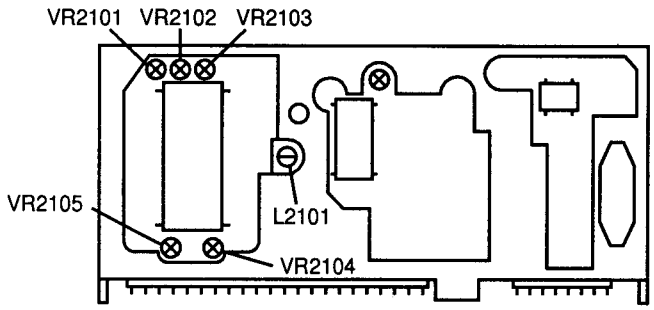
Figure 9

Cassette Deck Mechanism



Extension Cord (Part No. 01E23255S01)

Figure 10



FM/MW/LW Tuner Unit (FE001)

NOTE: For the Adjustment parts (VR201, VR202) and Test Points (T.P.1 ~6), refer to the Parts Layout on P.C. Boards and Wiring Diagram.

Description of IC Terminal

85151W08 : IC501

No.	Symbol		I/O	Terminal Description
1	○●	NFP EV DATA	O	E.VOL DATA output terminal for ADJ-NFP.
	△□	NC	—	No connection terminal.
2	NOSE PWR		O	Power Control signal output terminal to NOSE.
3	○●△	BUZZER	O	Guide Tone signal output terminal.
	□	NC	—	No connection terminal.
4	DTS START		O	Data START signal output terminal to DTS μ-COM.
5	$\overline{\text{DTS MUTE}}$		I	Mute signal input terminal from DTS μ-COM.
6	DTS CE		O	CE signal output terminal to DTS μ-COM.
7	ALARM		O	ALARM signal output terminal.
8	○●	NFP EV CE	O	E.VOL CE output terminal for ADJ-NFP.
	△□	NC	—	No connection terminal.
9	GND		—	GND terminal.
10	$\overline{\text{DOLBY B}}$		O	Dolby B • NR ON/OFF signal output terminal. H: OFF / L: ON
11	○●△	$\overline{\text{DOLBY C}}$	O	Dolby C • NR ON/OFF signal output terminal. H: OFF / L: ON
	□	NC	—	No connection terminal.
12	L.O. FAST		O	Gain Control signal output terminal for MS IC at CUE/REV. H: CUE/REV, L: PLAY
13	FOR/$\overline{\text{REV}}$		O	Tape Direction indicator output terminal. H: FOR / L: REV
14	O.MOTOR		O	Motor Rotation Control output terminal. H: ROTATE / L: STOP
15	R-IN		O	Sub Motor Rotation Control output terminal.
16	F-IN		O	R-IN: H (CCW)/L (CW)/H (BRAKE)/L (OFF), F-IN: L (CCW)/H (CW)/L (BRAKE)/H (OFF)
17	MTR FAST		I	Main Motor Rotation Control input terminal. H: High Speed / L: Stabilization
18	M.S. DET		I	Music Sensor Detection signal input terminal.
19	METAL		I	Metal Tape Detection terminal. H: METAL / L: NORMAL
20	PACK IN		I	Pack In Detection terminal. H: PACK IN / L: PACK OUT
21	REV.DET		I	REV REEL Rotation Detection input terminal.
22	MODE SW		I	Mode Detection input terminal.
23	FOR DET		I	FOR REEL Rotation Detection input terminal.
24	GND		—	GND terminal.
25	PAUSE SW		I	Pause Mode Detection input terminal.
26	MUTE		O	Audio Mute signal output terminal.
27	NFP-1		O	NFP Control signal output terminal. H: FAD-F / L: OTHERS
28	NFP-2		O	NFP Control signal output terminal. H: FAD-R / L: OTHERS
29	EV-DATA		I/O	Serial Data output to E.VOL/ACK input from E.VOL terminal.
30	EV-CLK		O	Serial Clock output terminal to E.VOL.
31	PWR IC		O	Stand-by Control output terminal for Power IC.
32	PWR ON		O	Power Control signal output terminal.
33	NC		—	No connection terminal.
34	BUS OUT		O	Signal output terminal to BUS I/F.
35	$\overline{\text{RESET}}$		I	System Reset input terminal.
36	REMOCON		I	Remocon Data input terminal.
37	BUS IN		I	Signal input terminal from BUS I/F.
38	ACC DET		I	ACC Detection signal input terminal.
39	BAT DET		I	BATT Detection signal input terminal.
40	VDD		—	Power Supply terminal.

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only, □: For TDA-7550R Model Only, Others : Common.

No.	Symbol	I/O	Terminal Description
41	X2	O	System Clock OSC connection terminal. (8.38MHz)
42	X1	I	
43	GND	—	GND terminal.
44	NC	—	No connection terminal.
45	GND	—	GND terminal.
46			
47	Ai-NET $\overline{IN}$/OUT	I	Audio signal switching input terminal. H: Outer AMP / L: Inner AMP
48	○● $\overline{IN\ INT}$	I	Mutual Reset IN-INT signal input terminal.
	△□ PULL-DOWN	—	Pull-Down terminal.
49	MODEL	I	A/D input terminal for Model Set Up.
50	ENCODER 1	I	Encoder Data input terminal.
51	ENCODER 2	I	
52	GND	—	GND terminal.
53			
54	NOSE-DET	I	Nose Detection input terminal.
55	V_{DD}	—	Power Supply terminal.
56			
57	LCD DO	I	Serial Data input terminal from LCD Driver.
58	LCD DI	O	Serial Data output terminal to LCD Driver.
59	LCD CLK	O	Serial Clock output terminal to LCD Driver.
60	LCD CE	O	Serial Data CE signal output terminal to LCD Driver.
61	LCD RST	O	Reset signal output terminal to LCD Driver.
62	DTS STS	I	Serial Data input terminal from DTS μ-COM.
63	DTS CMD	O	Serial Data output terminal to DTS μ-COM.
64	$\overline{DTS\ CLK}$	O	Serial Clock output terminal to DTS μ-COM.

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only, □: For TDA-7550R Model Only, Others : Common.

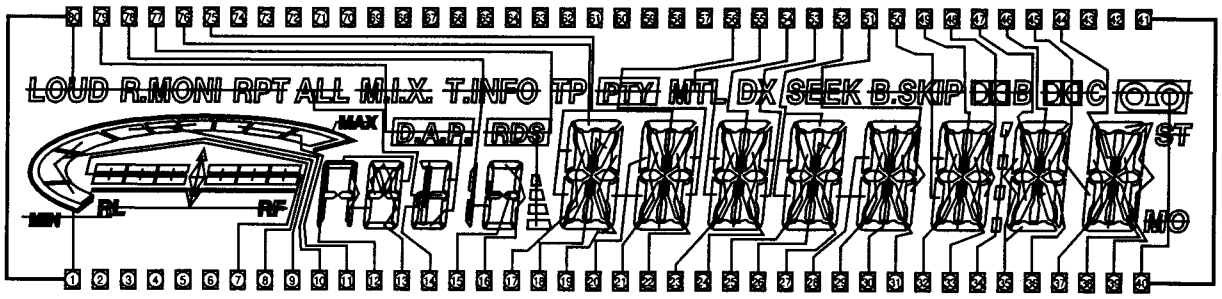
85088W01 : IC502

No.	Symbol	I/O	Terminal Description
1	LW	O	LW band selection output terminal.
2	LO/$\overline{DX}$	O	Local/DX control output terminal. H: During SEEK LOCAL
3	NC	—	No Connection terminal.
4	AV_{SS}	—	GND terminal for A/D converter.
5	$\overline{LPF\ SW}$	O	LPF time constant switching terminal at AF CHECK.
6	IF MUTE	O	IF Mute output terminal.
7	AV_{REF1}	—	Reference voltage terminal for A/D Converter.
8	RXD	I	RDS Monitor input terminal (Pull-Up terminal).
9	TXD	O	RDS Monitor output terminal (No Connection terminal).
10	SYNC	O	SYNC signal output terminal (No Connection terminal).
11	PLL CLK	O	Clock output terminal to PLL.
12	PLL DATA	O	Data output terminal to PLL.
13	PLL CE	O	Data communication control signal output terminal to PLL.
14	DTS MUTE	O	Audio mute output terminal.
15	DTS START	I	DTS data start input terminal.
16	DTS CMD	I	Command input terminal from Main μ-COM.
17	DTS STS	O	Status output terminal to Main μ-COM.
18	DTS CLK	I	Communication clock signal input terminal from Main μ-COM.

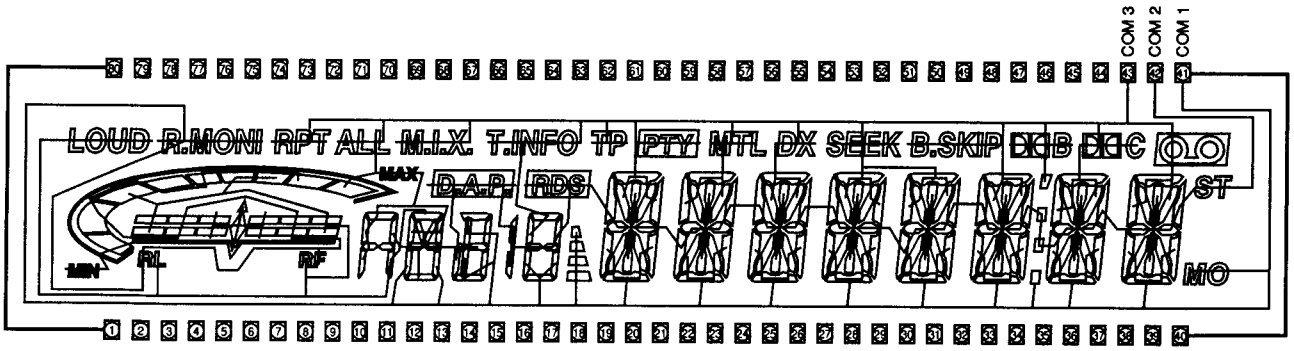
No.	Symbol	I/O	Terminal Description
19 ∫ 32	NC	—	No Connection terminal.
33	GND	—	GND terminal.
34 ∫ 57	NC	—	No Connection terminal.
58	FM/$\overline{AM}$	O	FM/AM mode switching signal output terminal. H: FM
59	AUDIO IN	I	Audio xerox Detection terminal.
60	RESET	I	System reset input terminal.
61	RDS CLK	I	RDS clock input terminal from RDS Decoder.
62	RDS DATA	I	RDS data input terminal from RDS Decoder.
63	DTS CE	I	DTS CE input terminal.
64 ∫ 66	NC	—	No Connection terminal.
67	50K REF	O	L.P.F. switching output terminal at RDS mode.
68	VDD	—	Power supply terminal.
69	X2	—	System clock OSC connection terminal. (4.9152 MHz)
70	X1	—	
71	GND	—	GND terminal.
72	NC	—	No Connection terminal.
73	PLL DATA I	I	PLL Data input terminal.
74	AVDD	—	Analog power supply terminal for A/D converter.
75	AVREF0	—	Reference voltage terminal for A/D converter.
76	S.METER	I	Signal meter voltage input terminal.
77	A/I	I	Port detects adjoining rejection interference of station.
78	M.P	I	Port detects multi path interference of station.
79	ST	I	ST signal input terminal.
80	SD	I	Station detector signal input terminal.

LCD Display

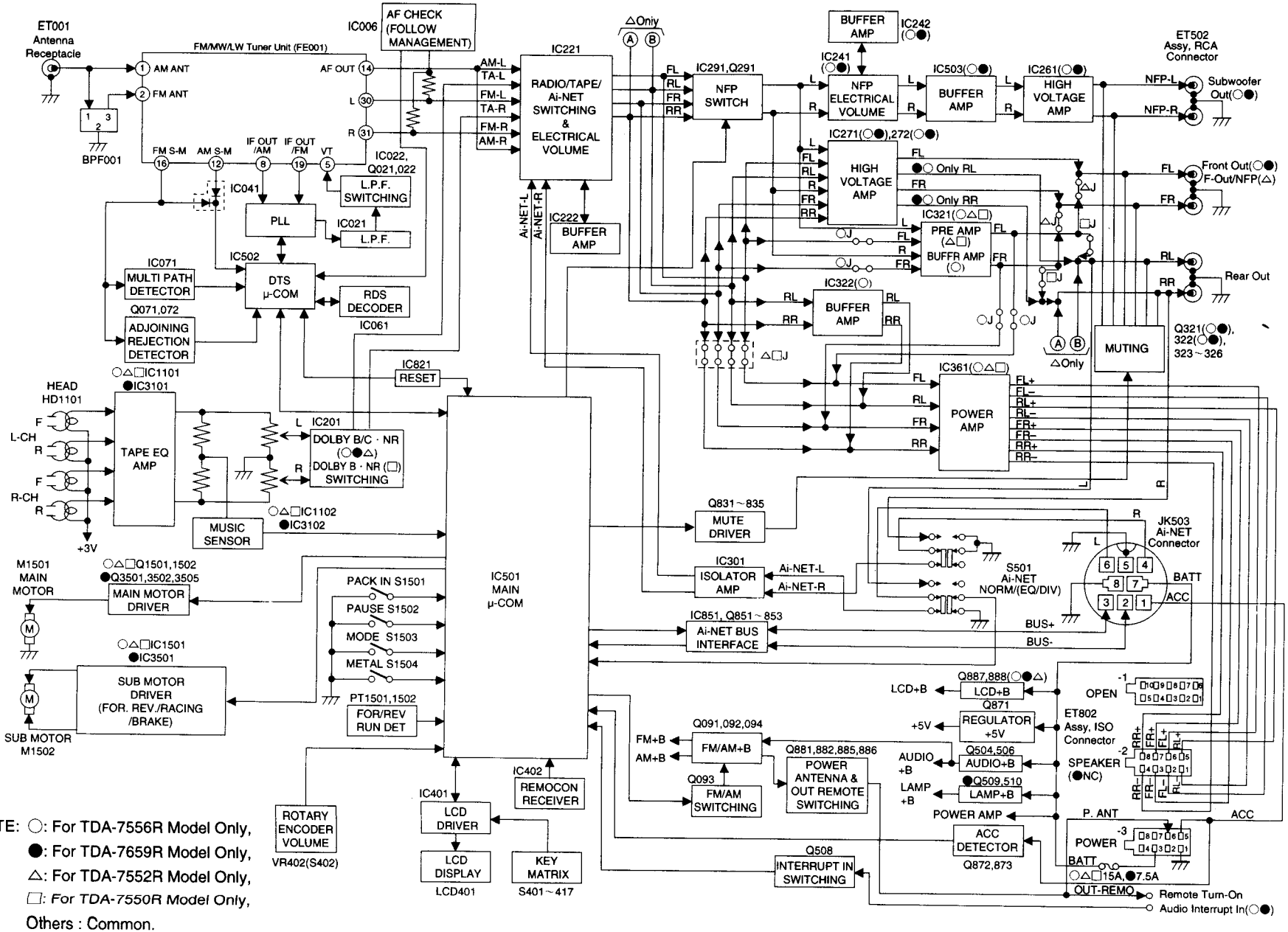
SEGMENT



COMMON



Block Diagram



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△: For TDA-7552R Model Only,
□: For TDA-7550R Model Only,
Others : Common.

Parts Layout on P.C. Boards and Wiring Diagram (1/4)

1

2

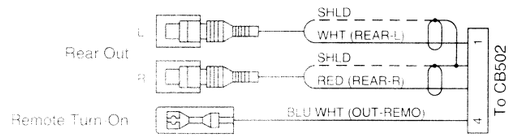
3

4

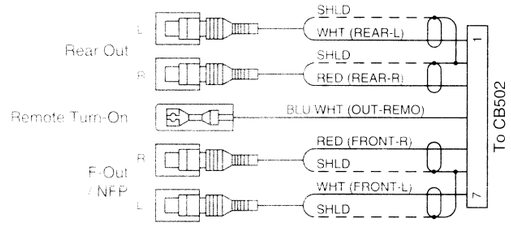
5

ET502

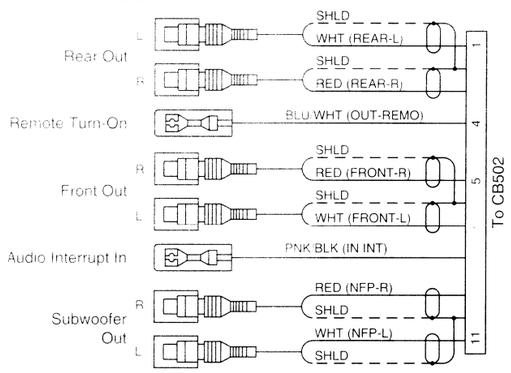
□ Assy., RCA Connector



△ Assy., RCA Connector

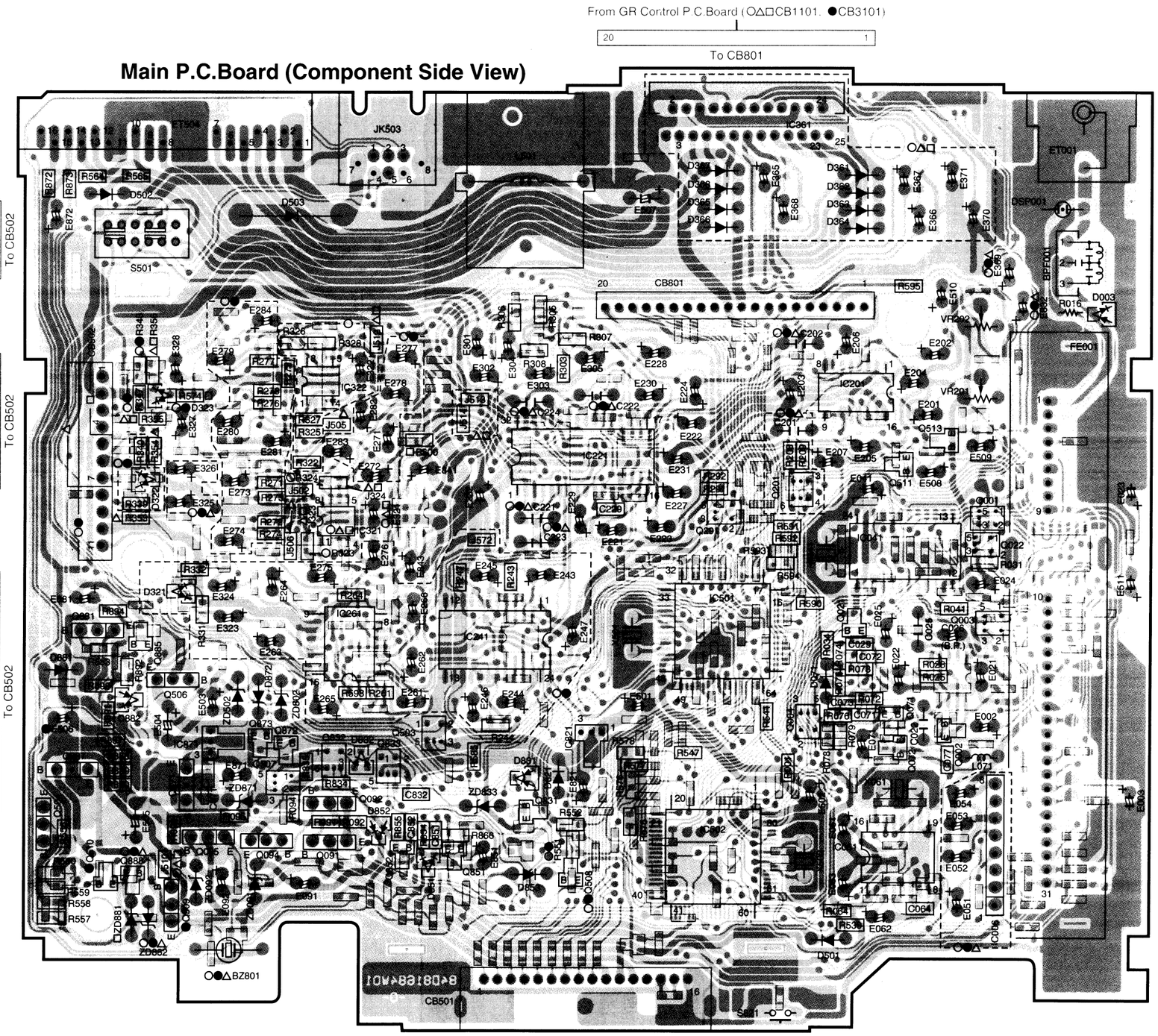


○● Assy., RCA Connector



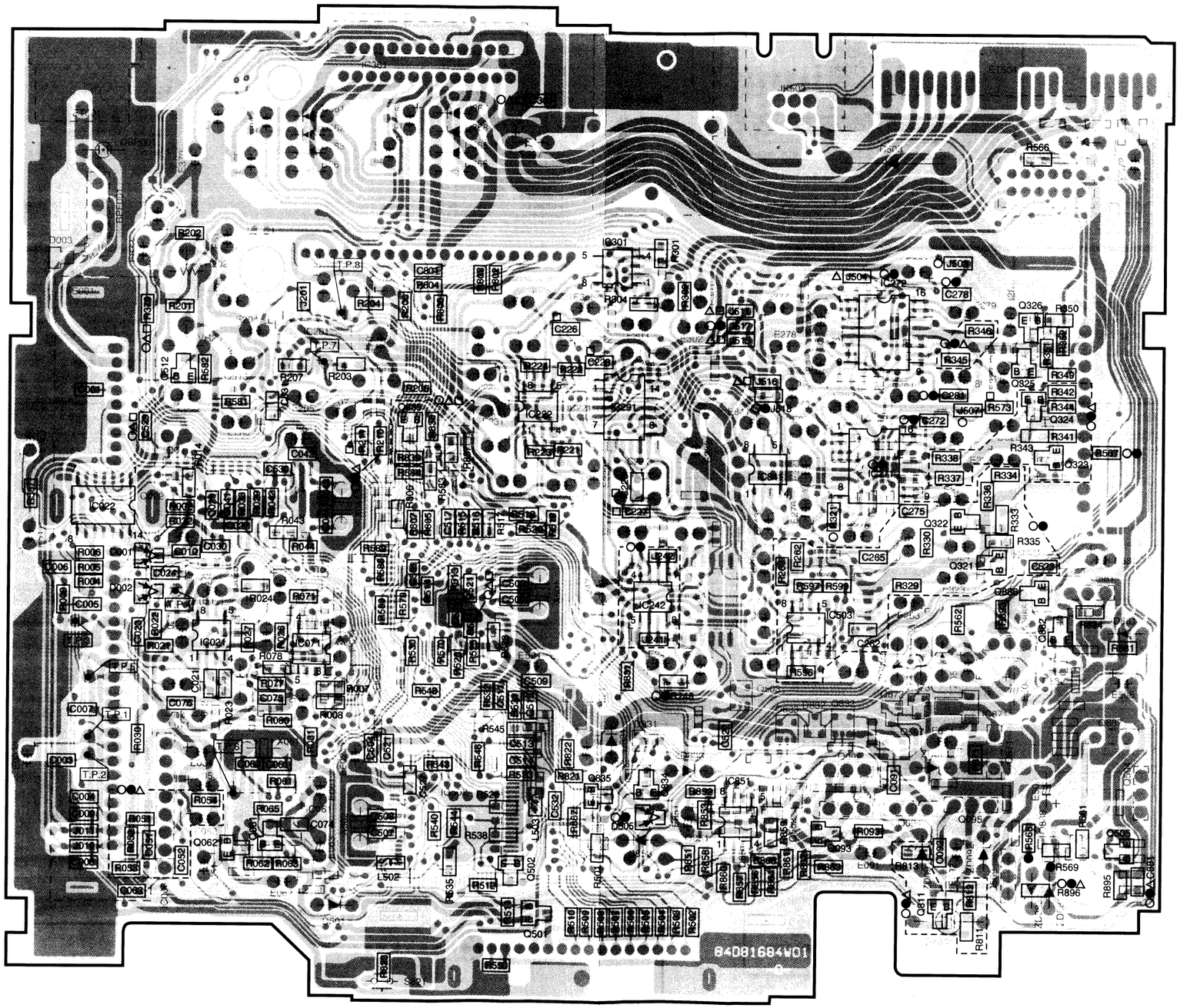
NOTE : ○ : For TDA-7556R Model Only
● : For TDA-7659R Model Only
△ : For TDA-7552R Model Only
□ : For TDA-7550R Model Only
Others : Common

Main P.C.Board (Component Side View)



Parts Layout on P.C. Boards and Wiring Diagram (2/4)

Main P.C.Board (Foil Side View)



NOTE : ○ : For TDA-7556R Model Only
● : For TDA-7659R Model Only
△ : For TDA-7552R Model Only
□ : For TDA-7550R Model Only
Others : Common

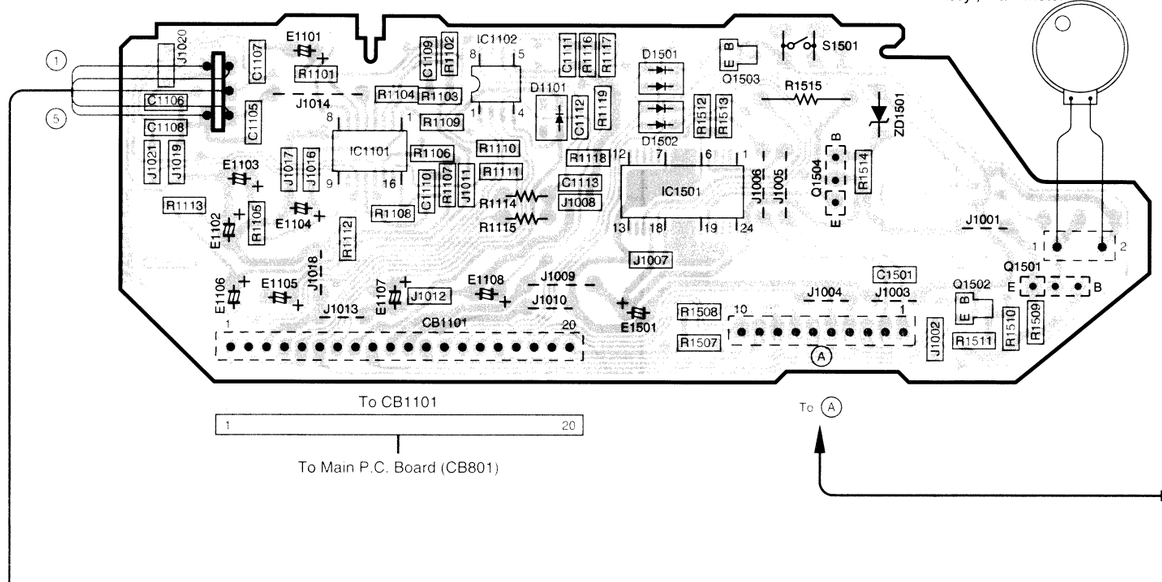
Orange Color Pattern : Component Side Pattern
Blue Color Pattern : Foil Side Pattern

Parts Layout on P.C. Boards and Wiring Diagram (3/4)

All P.C. Boards viewed from soldered side.

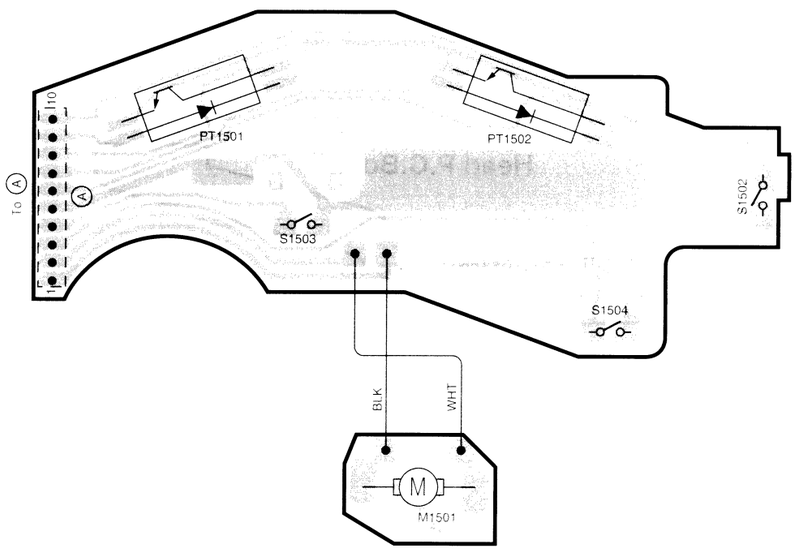
○△□(TDA-7556R/TDA-7552R/TDA-7550R Model Only)

GR Control P.C.Board

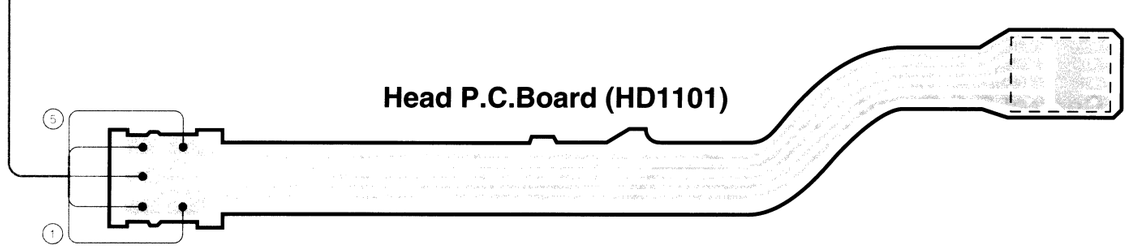


M1501
Assy., Main Motor

Photo P.C.Board

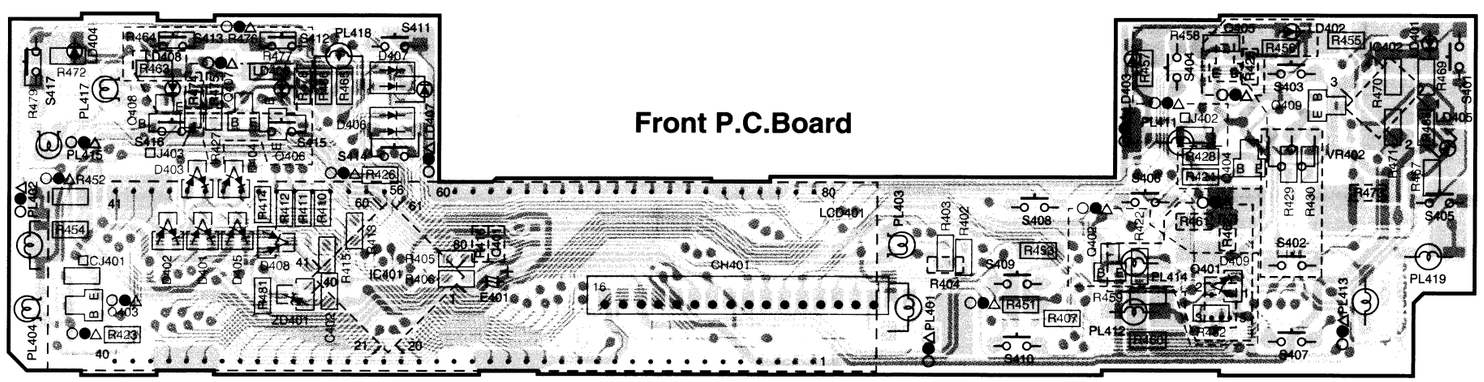


Head P.C.Board (HD1101)



Sub Motor P.C.Board

Front P.C.Board



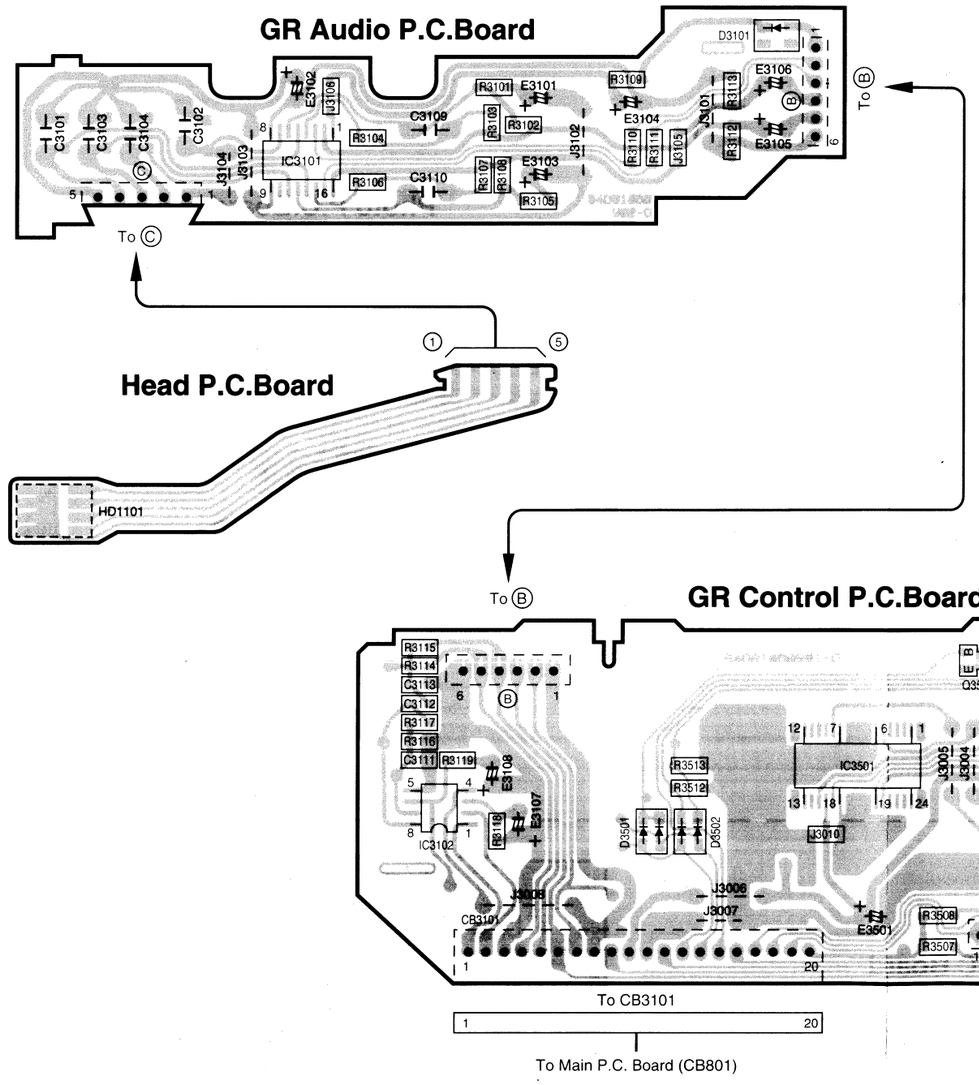
NOTE : ○ : For TDA-7556R Model Only
● : For TDA-7659R Model Only
△ : For TDA-7552R Model Only
□ : For TDA-7550R Model Only
Others : Common

Orange Color Pattern : Component Side Pattern
Blue Color Pattern : Foil Side Pattern

Parts Layout on P.C. Boards and Wiring Diagram (4/4)

All P.C. Boards viewed from soldered side.

● (TDA-7659R Model Only)



Blue Color Pattern : Foil Side Pattern

Schematic Diagram (1/6)

IC	IC006		IC022							IC021		IC041		IC841(1/2)	IC222(1/2)	IC222(2/2)
Transistor (Q)	Q0002	Q0003	Q0001	Q0004	Q0091	Q0092	Q0093	Q0094	Q0095	Q0021		Q0022		Q511	Q512	Q513

Main P.C.Board (1/4)

ET001 Antenna Receptacle

DSP001 DSP-201M

BPF001 LPF11830K

R015 10-1/4W

D003 DA204K

D001 MA151WK

D002 MA151WK

AM ANT (1)
FM ANT (2)
RF GND (3)
L/D (4)
VT (5)
GND(AM) (6)
F.OUT/FM (7)
IF.OUT/AM (8)
Vcc AM (9)
F.OUT/AM (10)
SD/AM (11)
AM S-M (12)
REQ AM (13)
AF OUT (14)
IF-GND (15)
FM S-M (16)
M-P-R (17)
Vcc/FM (18)
IF OUT (19)
SD/FM (20)
REQ FM (21)
DET OUT (22)
MPX IN (23)
0V(AFC) (24)
0V(REF) (25)
ST-IND (26)
NC (27)
ST/MONO (28)
SEEK-CONT (29)
L (30)
R (31)

T.P.3
T.P.5
T.P.1
T.P.2

FE001 FM/MW/LW Tuner Unit MB4R3010

R005 10K
R006 15K
R004 10K
C010 100P
C004 0.022
C003 100P
E003 0.68/50
C005 0.047
E002 22/16
C001 0.01
R001 1K
R009 2.2K
Q002 DTC124K

R014 10K
R002 10K
Q001 FMG1
IF CONTROL
R030 100-1/4W
E024 10/16
C007 0.1
R539 1K
FM REQ
AM REQ
Q003 FMG1
Q004 FMG1
R007 2.2K
R008 1K
R041 1K
T.P.6
T.P.4
IF CONTROL

IC022 MC14066BFL1
Vdd
Vss

C021 0.01
C022 0.1
R023 2.2K
R021 1K
R025 100
R026 18K
R027 22K
E022 100/10
E023 0.1/50
C023 0.01
C030 0.022
E021 100/16
IC021 NJM4558M
C025 0.15
L.P.F.
C026 2.2/50 (B.P)
R024 2.2K
R028 1K
R029 5.6K
R022 1K
C024 0.033
C027 0.033
E025 0.68/50
R031 10K
R032 2.2K
L.P.F. SWITCHING
Q021 DTC124K
C029 0.01
R034 1K
Q022 FMG1
LW SWITCHING
R033 1K
C028 0.01

MUTING
Q512 DTC143TK
Q511 DTC143TK
Q513 DTC143TK
IC222 XRA4560F(○●) XRA4558FH(△□)
BUFFER AMP
R582 51K
R581 51K
R587 100K
R223 10K
R221 10K
E231 1/50
E229 1/50
C225 0.039
C223 5600P
C227 5600P
C229 0.01
C221 0.039
E232 47/16
E228 100/10
E508 1/50
E221 1/50
E223 4.7/35
E509 1/50
E222 1/50
E511 1/50
E227 1/50
E224 4.7/35
C222 0.039
C224 5600P
C226 0.039
C228 5600P
R224 10K
R222 10K
IC222 XRA4560F(○●) XRA4558FH(△□)

POWER SUPPLY
MUTE FUNCTION ZERO CROSS DETECTOR
SOURCE SELECTOR
LOGIC
VOLUME 1 +20 to -31dB LOUDNESS LEFT
VOLUME 1 +20 to -31dB LOUDNESS RIGHT
BASS LEFT +15dB
BASS RIGHT +15dB
TREBLE LEFT +12dB
TREBLE RIGHT +12dB
VOLUME 2 0 to
BALANCE FADER
HC BUS REC

IC006 M51143AL
Vcc
LIMITER AMP
SWITCH CIRCUIT
1/2Vcc
COMP(1) FF2
VREG
POWER ON RESET MUSIC SELECT START SENSOR SWITCH
FF1
COMP (2)
GND
C052 68P
R053 1M
E051 33/16
E052 0.1/50
E053 1/50
E054 10/16
R054 91K
C051 0.1
R051 33K
R052 33K
AF CHECK (FOLLOW MANAGEMENT)

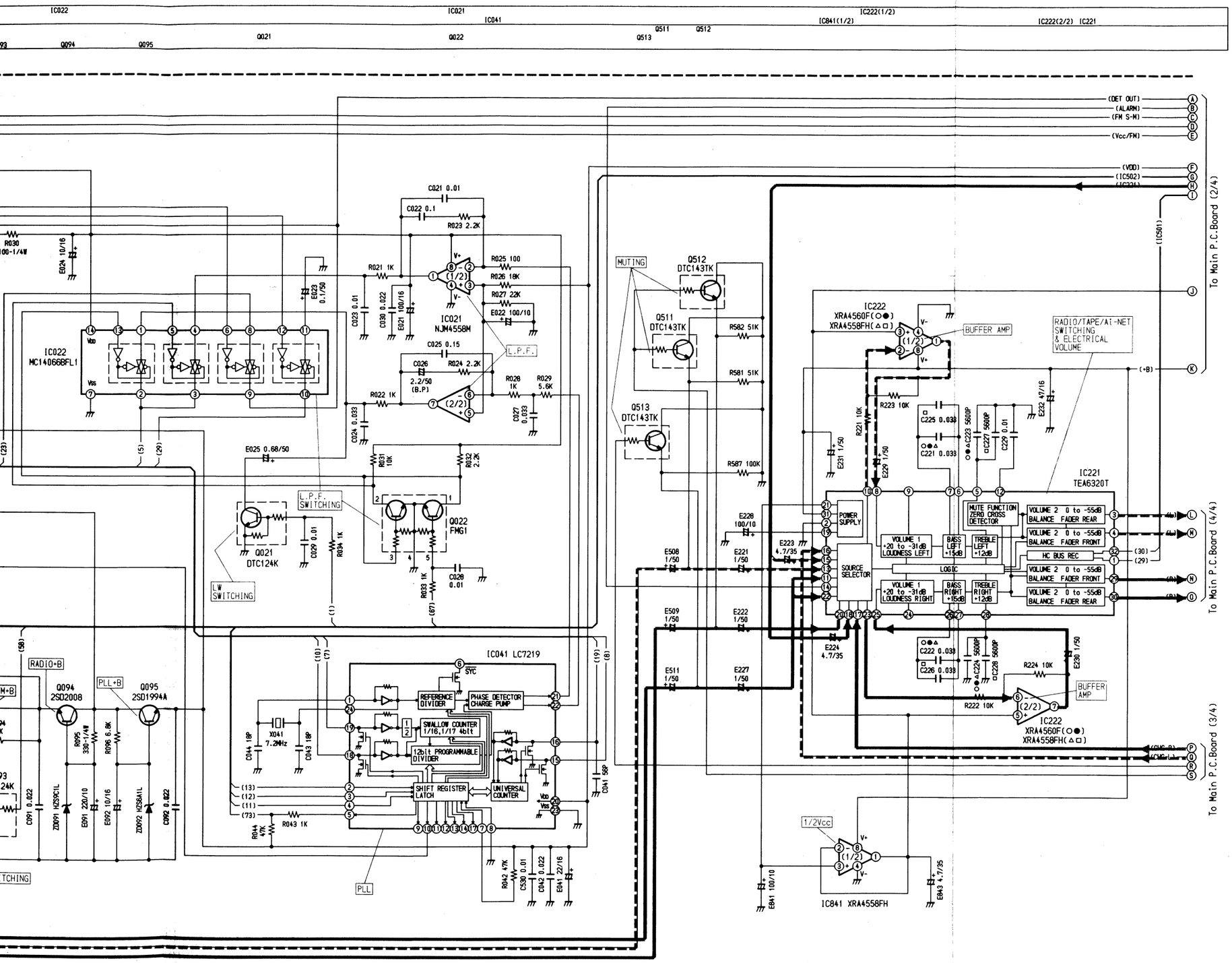
Q091 2SB1238
Q092 2SB1238
Q093 DTC124K
Q094 2SD2008
Q095 2SD1994A
AM+B
FM+B
RADIO+B
PLL+B
R091 3.3K
R092 1K
R093 2.2K-1/4W
R094 10K
R095 330-1/4W
R096 6.8K
ZD091 HZS9C1L
ZD092 HZS8A1L
E091 220/10
E092 10/16
C092 0.022
C091 0.022
FM/AM SWITCHING

IC041 LC7219
SYC
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
SWALLOW COUNTER 1/16,1/17 4bit
12bit PROGRAMMABLE DIVIDER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
X041 7.2MHz
C044 18P
C043 18P
C041 56P
R044 47K
R043 1K
R042 47K
C530 0.01
C042 0.022
E041 22/16
PLL

1/2Vcc
IC841 XRA4558FH
E841 100/10
E843 4.7/35

RADIO SWITC & ELE VOLUM

A | B -21- | C | D | E | F -22- | G | H



○●△IC006

1	1.4V	FM
2	1.4V	FM
3	0V	
4	1.3V	FM
5	0V	FM
6	0V/8.9V	MOD. ON/OFF
7	0V/5V	MOD. ON/OFF
8	9V	

IC021

1	4.2V	FM
2	4.2V	FM
3	4.2V	FM
4	0V	
5	2.7V	FM
6	2.7V	FM
7	2.2V/4.2V	RDSON/OFF
8	9.2V	

IC022

1	2.2V/4.2V	RDSON/OFF
2	4.2V	
3	4.2V	
4	2.2V/5.1V	RDSON/OFF
5	9.2V/0V	RDSON/OFF
6	9.2V	FM
7	0V	
8	2.4V	FM
9	2.4V	FM
10	0V/2.3V	SEEK ON/OFF
11	0V	FM
12	9.2V	FM
13	0V/8.6V	FM/AM
14	9.2V	

IC222

1–3	4.2V	FM
4	0V	
5–7	4.2V	FM
8	8.5V	

IC841

1–3	4.3V	
4	0V	
5–7	4.3V	TAPE
8	8.5V	

IC041

1	OSC		16	0V	FM
2–5	4.9V	SEEK ON	17	NC	
6	NC		18	2.5V	AM
7	4.8V	FM	19	2.6V	FM
8	0V		20	4.9V	
9	NC		21, 22	2.7V	FM
10	4.8V	FM	23	0V	
11–14	NC		24	OSC	
15	2.8V	AM			

Q004

1	0V/4V	IF MUTE ON/OFF
2	3V/0V	SEEK ON/OFF
3	0V/5V	SEEK ON/OFF
4	0V/0V	
5	4.5V/0V	IF MUTE ON/OFF

IC221

1	4.9V		17	Audio	CD Changer
2	0V		18	Audio	TAPE
3, 4	Audio		19, 20	Audio	FM
5–8	4.2V	FM	21	4.2V	FM
9	NC		22	Audio	AM
10	4.2V	FM	23	4.2V	FM
11	Audio	AM	24	NC	
12	—		25–28	4.2V	FM
13	Audio	FM	29, 30	Audio	
14	Audio	TP-ALM	31	8.5V	
15	Audio	TAPE	32	4.9V	
16	Audio	CD Changer			

	E	C	B	MODE
Q002	0V/0V	0V/0V	0V/4V	IF MUTE ON/OFF
Q021	0V/0V	0V/0V	4.7V/0V	LW ON/OFF
Q091	9.1V/9.1V	0V/9V	9V/8.5V	FM/AM
Q092	9V/9.1V	9V/0.7V	8.4V/9.1V	FM/AM
Q093	0V/0V	0V/9V	4.8V/0V	FM/AM
Q094	9.1V	13.6V	9.6V	TUNER
Q095	4.9V	13.6V	5.5V	TUNER
Q511	0V/0V	0V/0V	5V/0V	IF MUTE ON/OFF
Q512	0V/0V	0V/0V	5V/0V	IF MUTE ON/OFF
Q513	0V/0V	0V/0V	5V/0V	IF MUTE ON/OFF

	1	2	3	4	5	MODE
Q001	0V/9V	0V/9V	3V/0V	0V/0V	3V/0V	SEEK ON/OFF
Q003	8V/0V	1V/0V	0V/4.5V	0V/0V	0V/4.5V	REQ ON/OFF
Q022	0V/9V	9V/0V	0V/9V	0V/0V	4.9V/0V	RDS ON/OFF

<Measuring Conditions>

1. Power Supply Voltage : DC14V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   TAPE: Blank Tape Play

NOTE: ○: For TDA-7556R Model Only,
●: For TDA-7659R Model Only,
△: For TDA-7552R Model Only,
□: For TDA-7550R Model Only,
Others : Common.

NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1{,}000{,}000}$

TDA-7556R/7659R/
TDA-7552R/7550R

Schematic Diagram (2/6)

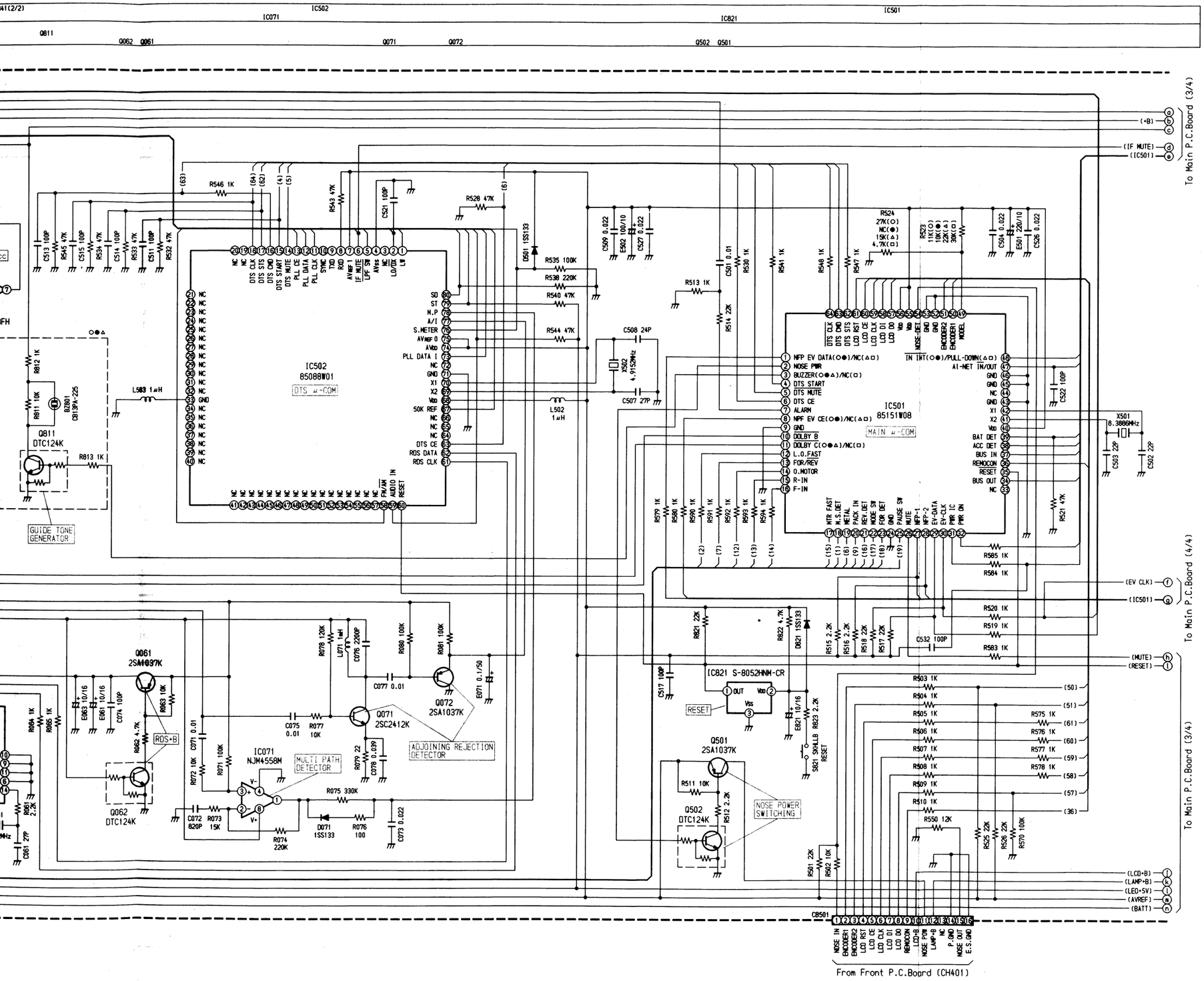
IC	IC201	IC061	IC841(2/2)	IC071	IC502	IC821	IC501
Transistor (Q)	Q201	Q811	Q062 Q061	Q071 Q072	Q502 Q501		

Main P.C.Board (2/4)

To Main P.C.Board (1/4)

To GR Control P.C.Board
CB1101(○△□) CB3101(●)

From Front P.C.Board (CH401)



IC061

1	NC	
2	5V	FM
3, 4	2.4V	FM
5	4.8V	
6	0V	
7, 8	2.4V	FM
9–11	0V	
12	4.9V	
13, 14	OSC	
15	NC	
16	4.8V	FM

IC071

1–3	4.8V	FM
4	0V	
5–7	NC	
8	9V	

IC821

1	5V/1.7V	RESETON/OFF
2	5V/0V	RESETON/OFF
3	0V	

IC841

1–3	4.3V	
4	0V	
5–7	4.3V	TAPE
8	8.5V	

IC502

1	5V	LW	60	0V/5V	RESETON/OFF
2	5V/0V	LO/DX	61–63	DATA	
3	0V	FM	64–66	NC	
4	0V		67	5V/0V	RDSON/OFF
5	5V	FM	68	5V	
6	0V	FM	69, 70	OSC	
7–9	5V	FM	71	0V	
10	0V	FM	72	NC	
11–18	DATA		73	DATA	
19–32	NC		74, 75	5V	
33	0V		76	0V	FM
34–57	NC		77, 78	5V	FM
58	5V/0V	FM/AM	79	0V/5V	ST/MONO
59	5V		80	0V	FM

IC201

1	NC	
2	8.5V	
3	4.2V	
4	4.2V	AVREF
○●△5	0V/3.5V//7.6V	NORMAL/DOLBY B/C
□5	0V/3.5V	NORMAL/DOLBY B
6	4.2V	
7	0V	
○●△8	0V	
□8	NC	
○●△9	0V	
□9	NC	
10	0V	
11	4.2V	
12	8.5V	
13	1.2V	
14	4.2V	
15	0V	
16	NC	

IC501

○●1	5V		27–30	5V	
△□1	NC		31	5V/0V	PWR IC ON/OFF
2	5V/0V	DF ON/OUT	32	5V/0V	Power ON/OFF
○●△3	0V	BUZZER	33	NC	
□3	NC		34	DATA	
4	PS		35	0V/5V	RESET ON/OFF
5, 6	5V		36	DATA	
7	0V	ALARM	37	DATA	
○●8	0V		38	5V/0V	ACC ON/OFF
△□8	NC		39	5V/0V	BATT ON/OFF
9	0V		40	5V	
10	0V/5V	DOLBY B ON/OFF	41, 42	OSC	
○●△11	0V/5V	DOLBY C ON/OFF	43	0V	
□11	NC		44	NC	
12	5V/0V	FF-REW/OTHER	45, 46	0V	
13	5V/0V	FOR/REV	47	0V/5V	CD Changer/EQ
14	5V/0V	TAPE • PLAY/OTHER	○●48	0V/5V	IN-INT ON/OFF
15, 16	0V		△□48	0V	
17	5V/0V	FF-REW/OTHER	49	—	
18	0V		50, 51	5V	
19	5V/0V	METAL/NORMAL	52, 53	0V	
20	5V/0V	PACK-IN/OUT	54	2.5V/5V	NOSE ON/OFF
21–23	DATA		55, 56	5V	
24	0V		57–59	DATA	
25	5V/0V	TAPE • PLAY/PAUSE	60, 61	5V	
26	0V		62–64	DATA	

	1	2	3	4	5	6	MODE
○●△Q201	0V/3.7V/0V	4.9V/4.9V/0V	0V/4.3V/8.2V	5V/0V/5V	0V/0V/0V	0V/0V/0V	NORMAL/DOLBY B/C

	E	C	B	MODE
Q061	4.9V	4.8V	4.2V	FM
Q062	0V	0V	9V	FM
Q071	0V	8.6V	0.9V	
Q072	4.8V	0V	4.8V	
Q501	5V/5V	5V/0V	4V/0V	NOSE P. ON/OFF
Q502	0V/0V	0V/4V	5V/0V	NOSE P. ON/OFF
○●△Q811	13.8V	0V	0V	

<Measuring Conditions>

1. Power Supply Voltage : DC14V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   TAPE: Blank Tape Play

NOTE: ○: For TDA-7556R Model Only,
●: For TDA-7659R Model Only,
△: For TDA-7552R Model Only,
□: For TDA-7550R Model Only,
Others : Common.

NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1{,}000{,}000}$

Schematic Diagram (3/6)

IC	IC851	IC871	IC361	IC301
Transistor (Q)	Q508 Q503 Q834 Q507 Q835 Q831 Q851 Q852 Q872 Q873 Q853 Q832 Q871 Q833 Q506 Q504 Q505 Q888 Q887 Q510 Q509 Q885 Q886 Q882 Q881			

Main P.C.Board (3/4)

To Main P.C.Board (1/4)

To Main P.C.Board (2/4)

To Main P.C.Board (2/4) (1/4)

(S) (R)

(h) (MUTE)

(c) (IF MUTE)

(d) (+B)

(b) (BATT)

(n) (LAMP+B)

(k) (AVREF)

(L) (LED+5V)

(I) (IC501)

(l) (RESET)

(Q) (CLK-L)

(P) (CLK-R)

(I) (LCD+B)

MUTE DRIVER

Q834 DTC124K

Q831 DTC124K

D831 DAN202K

ZD833 HZS9B2L

R831 10K

D832 DAN202K

R834 1K-1/4W

C831 100P

Q832 FMC2

R835 10K-1/4W

C832 0.1

Q833 FMC2

R839 220

Q835 DTC124K

R837 10K

R838 15K

E832 10/16

C529 100P

IC361 TDA7384

Vcc1

Vcc2

NC

E365 0.33/50

E366 0.33/50

E368 0.33/50

E367 0.33/50

R373 10K

E369 1/50

POWER AMP

SVR

TAB

E371 1/50

E370 47/16

L501 CHOKE

D361 MPG06G

D362 MPG06G

D363 MPG06G

D364 MPG06G

D368 MPG06G

D367 MPG06G

D366 MPG06G

D365 MPG06G

C361 0.1

E507 4700/16(○△□) 2200/16(●)

ET504 Assy.,ISO Connector (-1:OPEN,-2:SPEAKER,-3:P

15A(○△□) 7.5A(●)

D503 DSK34

REGULATOR

Q872 DTA124

Q873 DTC114TK

IC871 S-8054ALR-LN

OUT

Vcc

Vss

ZD802 HZS7B1L

R873 4.7K

D872 1SS133

E872 0.1/50

R872 4.7K

Q871 2SD2008

ZD871 HZS6B1L

E871 1/50

R871 3.9K-1/4W

C871 0.01

REGULATOR+5V

BATTERY DETECTOR

Q506 2SC3421

E504 330/16

R562 1K-1/4W

ZD502 HZS9B3L

ZD503 HZS9B3L

E503 10/16(○) 1/50(●) 4.7/35(△) 2.2/50(□)

E505 220/16

R561 100K

Q504 2SB1243

AUDIO+B

R560 1.8K-1/4W

R559 1.8K-1/4W

R558 1.8K-1/4W

R557 1.8K-1/4W

Q505 DTC143XK

LED+B

R556 10K-1/4W

Q509 2SB1243

R569 2.2K-1/4W

Q510 DTC124K

LAMP+B

R568 10K

E506 100/16

R564 270-1/4W

R565 270-1/4W

D502 MPG06G

POWER ANTENNA & OUT REMOTE SWITCHING

Q505 DSK34

Q503 FMC2

POWER ON SWITCHING

Q507 FMC2

ACC DETECTOR

Q508 DTA143

R551 1K

R552 47K(○●) 10K(△□)

C523 0.01

MA152WK

INTERRUPT IN SWITCHING

D853 1SS133

R867 10-1/4W

Q851 2SB709A

IC851 NJM2903M

R853 10K

R852 10K

R854 4.7K

C851 100P

R866 1.2K

R862 2.2K

R863 1.5K

D851 DAP202K

Q853 DTA124

R858 39-1/4W

R860 39-1/4W

R859 39-1/4W

R861 39-1/4W

D852 DAN202K

R855 6.8K

C852 27P

Q852 2SD601A

R864 1.5K

R865 2.2K

R851 6.8K

E851 10/16

R856 10K

R857 10K

AI-NET BUS INTERFACE

Q887 2SD2096

ZD882 HZS9C2L

C881 0.01

Q888 2SD601A

R896 1.2K

R895 470-1/4W

ZD881 HZS9C3L

E881 10/16

Q886 DTC124K

LCD+B

Q885 2SA1037K

R894 10K

R893 2.2K-1/4W

R897 9.1-1/4W

R888 9.1-1/4W

R889 9.1-1/4W

R890 9.1-1/4W

R892 10K

D882 DA204K

R891 10K

Q881 2SB1243

R884 10K

R899 1.8K-1/4W

R883 1.8K-1/4W

D881 MPG06G

R881 10K

Q882 DTC114K

ISOLATOR AMP

IC301 XRA4560F(○) M5218AFP(●) XRA4558FH(△□)

R307 12K

R308 12K

R305 12K

R306 12K

E303 10/16

E301 10/16

E302 10/16

E304 10/16

R303 22K

R301 22K

R302 22K

R304 22K

E305 10/16

S501 AI-NET-NORM /(EQ/DIV)

JK503 AI-NET Connector

(GND)

(S.GND)

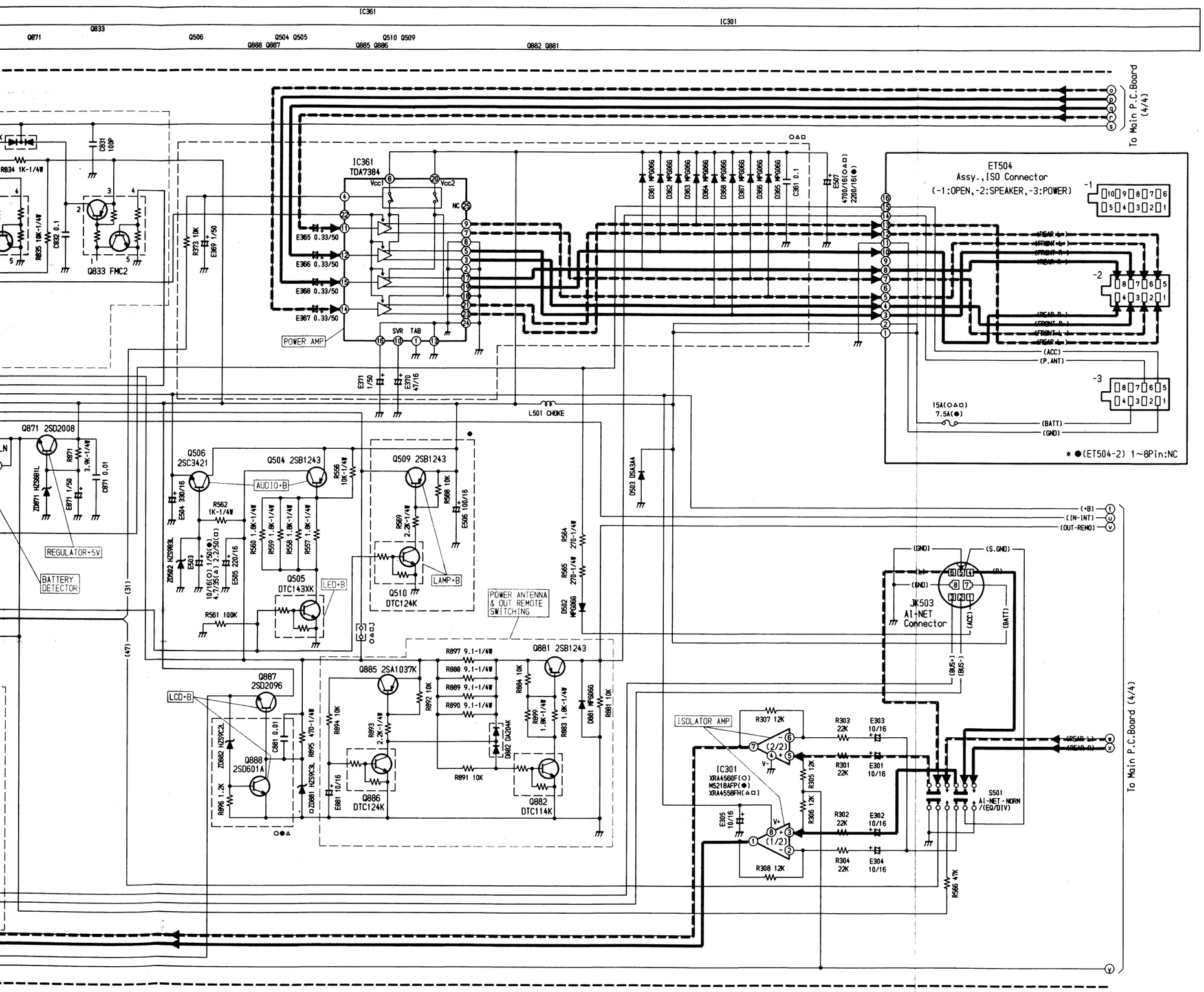
(ACC)

(BATT)

(BUS+)

(BUS-)

R566 47K



IC301

1~3	4.3V	CD Changer
4	0V	
5~7	4.3V	CD Changer
8	8.6V	

IC851

1	DATA	CD Changer
2	2.98V	CD Changer
3	0V	CD Changer
4	0V	
5	DATA	CD Changer
6	0V	CD Changer
7	5V	CD Changer
8	5V	

○△□IC361

1, 2	0V		14, 15	Audio	
3	Audio		16	5V	FM
4	5V/0V	PWR IC ON/OFF	17	Audio	
5	Audio		18	0V	
6	13.8V		19	Audio	
7	Audio		20	13.8V	
8	0V		21	Audio	
9	Audio		22	0V/5V	MUTE ON/OFF
10	5V	FM	23	Audio	
11, 12	Audio		24, 25	NC	
13	0V				

IC871

1	5V	
2	5V	
3	0V	

	1	2	3	4	5	MODE
Q503	NC	5V/0V	5V/5V	5V/0V	0V/0V	POWER ON/OFF
Q507	NC	5V/0V	5V/5V	5V/0V	0V/0V	ACC ON/OFF
Q832	0V/13.8V	13.8V/0V	13.8V/13.8V	5V/0V	0V/0V	MUTE ON/OFF
Q833	NC	13.8V/0V	13.8V/13.8V	5V/0V	0V/0V	IF MUTE ON/OFF

	E	C	B	MODE
Q504	13.8V/13.8V	12V/0V	0V/13V	POWER ON/OFF
Q505	0V/0V	0V/13.8V	5V/0V	POWER ON/OFF
Q506	8.6V/0V	13.8V/13.8V	0V/9.2V	POWER ON/OFF
○●Q508	5V/5V	0V/4.9V	0V/4.9V	IN-INT ON/OFF
●Q509	13.7V/13.7V	13.7V/0V	0V/13V	POWER ON/OFF
●Q510	5V/5V	0V/13V	5V/0V	POWER ON/OFF
Q831	0V/9.1V	0V/0V	6.5V/0V	ACC ON/OFF
Q834	0V/0V	4.2V/0V	13.8V/13.8V	POWER ON/OFF
○△□Q835	5.4V	0V	0V	
Q851	5V	2V	5V	CD Changer
Q852	0V	2.99V	0V	CD Changer
Q853	5V/5V	2V/0V	5V/0V	RESET ON/OFF
Q871	5V	13.8V	5.6V	
Q872	5V/5V	5V/0V	0V/5V	ACC ON/OFF
Q873	0V/0V	0V/5V	5.6V/0V	ACC ON/OFF
Q881	13.7V	13.6V	13V	POWER ON
Q882	0V	7V	0V	POWER ON
Q885	13.7V	0V	13.7V	POWER ON
Q886	0V	13.6V	0V	POWER ON
Q887	13.8V/0V	13.8V/13.8V	0V/5V	POWER ON/OFF
○●△Q888	9.5V	13.8V	0.6V	

<Measuring Conditions>

1. Power Supply Voltage : DC14V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   TAPE: Blank Tape Play

NOTE: ○ : For TDA-7556R Model Only,
● : For TDA-7659R Model Only,
△ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only,
Others : Common.

NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1{,}000{,}000}$

TDA-7556R/7659R/
TDA-7552R/7550R

TDA-7556R/7659R/
TDA-7552R/7550R

Schematic Diagram (4/6)

IC	IC503 IC242(1/2)	IC261 IC241	IC242(2/2)	IC271	IC291	IC272	IC321 IC322
Transistor (Q)			Q291				Q321 Q322 Q323 Q324 Q325 Q326

Main P.C.Board (4/4)

HIGH VOLTAGE AMP

BUFFER AMP

IC503 XRA4560F

IC261 TDA8576T

IC271 TDA8576T

IC272 TDA8576T

MUTING

To Main P.C.Board (3/4)

To Main P.C.Board (1/4)

To Main P.C.Board (2/4)

To Main P.C.Board (3/4)

IC242 XRA4560F

IC241 TC9212F

NFP ELECTRICAL VOLUME

BUFFER AMP

Q291 FMG1

NFP SWITCHING

IC291 MC14066BFL1

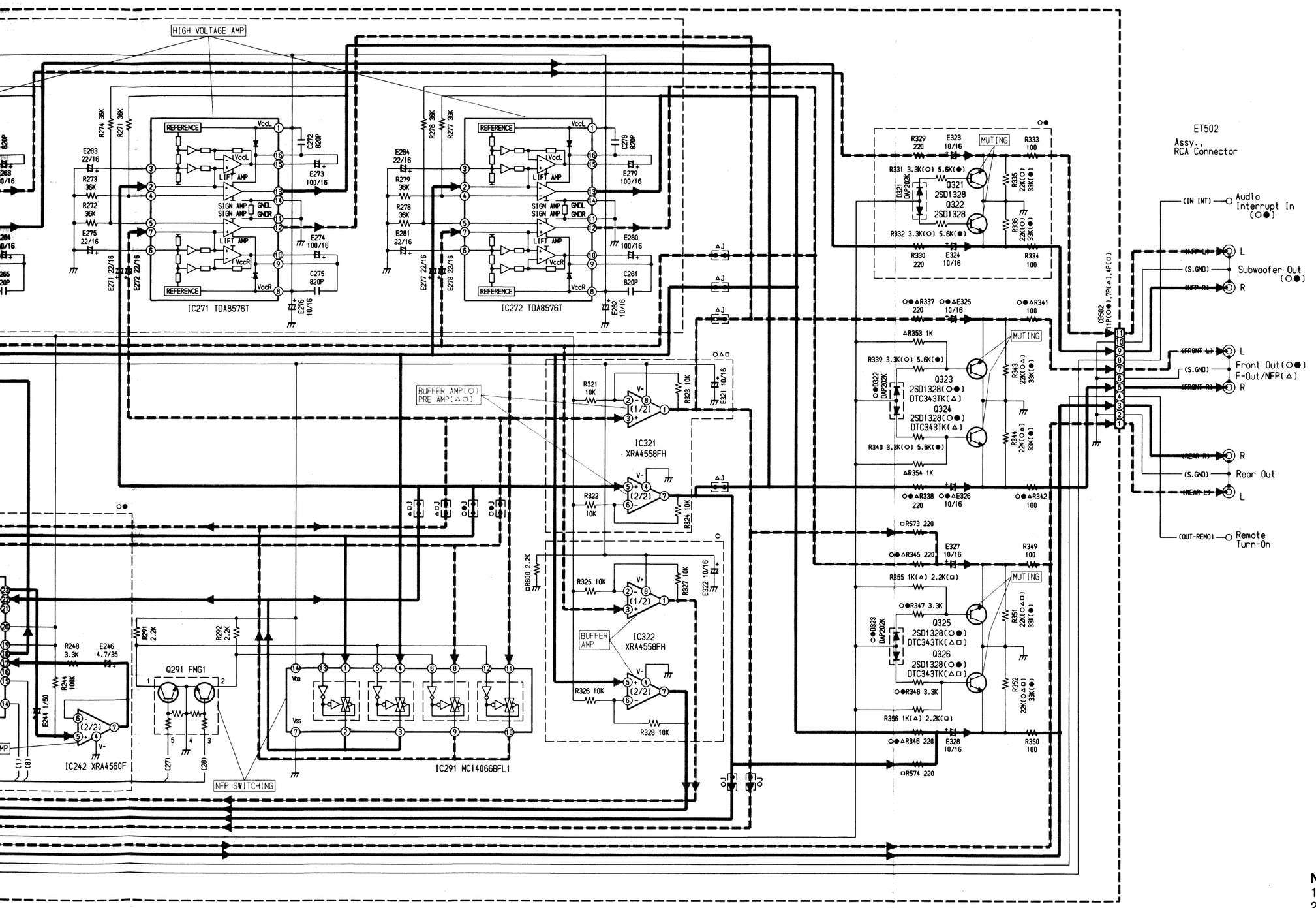
BUFFER AMP(○)
PRE AMP(△□)

IC321
XRA4558FH

IC322
XRA4558FH

TDA-7556R/7659R/ TDA-7552R/7550R	TDA-7556R/7659R/ TDA-7552R/7550R

IC271 IC272 IC321
IC242(2/2) IC291 IC322
Q321 Q322
Q323 Q324
Q291 Q325 Q326



○●IC241

1	0V	13	NC
2, 3	4.3V	14	5V
4	NC	15	0V
5-8	4.3V	16	NC
9	NC	17-20	4.3V
10	0V	21	NC
11	5V	22, 23	4.3V
12	NC	24	8.6V

○●IC261, 271, 272

1	8.5V	10	2.7V
2, 3	3.6V	11	0V
4, 5	3.5V	12, 13	7.3V
6, 7	3.6V	14	0V
8	8.5V	15	2.6V
9	7.8V	16	7.8V

○●IC242

1-3	4.3V	FM
4	0V	
5-7	4.3V	FM
8	8.6V	

IC291

1-4	Audio	
5, 6	0V/8.5V	NFP SW ON/OFF
7	0V	
8-11	Audio	
12, 13	0V/8.5V	NFP SW ON/OFF
14	8.5V	

○△□IC321 ○IC322

1-3	4.3V	FM
4	0V	
5-7	4.3V	FM
8	8.6V	

○●IC503

1-3	4.3V
4	0V
5-7	4.3V
8	8.6V

	1	2	3	4	5	MODE
Q291	DATA	DATA	DATA	0V	DATA	NFP

	E	C	B	MODE
○●Q321	0V/0V	0V/0V	0V/13.8V	MUTE ON/OFF
○●Q322	0V/0V	0V/0V	0V/13.8V	MUTE ON/OFF
○●△Q323	0V/0V	0V/0V	0V/13.8V	MUTE ON/OFF
○●△Q324	0V/0V	0V/0V	0V/13.8V	MUTE ON/OFF
Q325	0V/0V	0V/0V	0V/13.8V	MUTE ON/OFF
Q326	0V/0V	0V/0V	0V/13.8V	MUTE ON/OFF

<Measuring Conditions>

1. Power Supply Voltage : DC14V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   TAPE: Blank Tape Play

NOTE: ○: For TDA-7556R Model Only,
●: For TDA-7659R Model Only,
△: For TDA-7552R Model Only,
□: For TDA-7550R Model Only,
Others : Common.

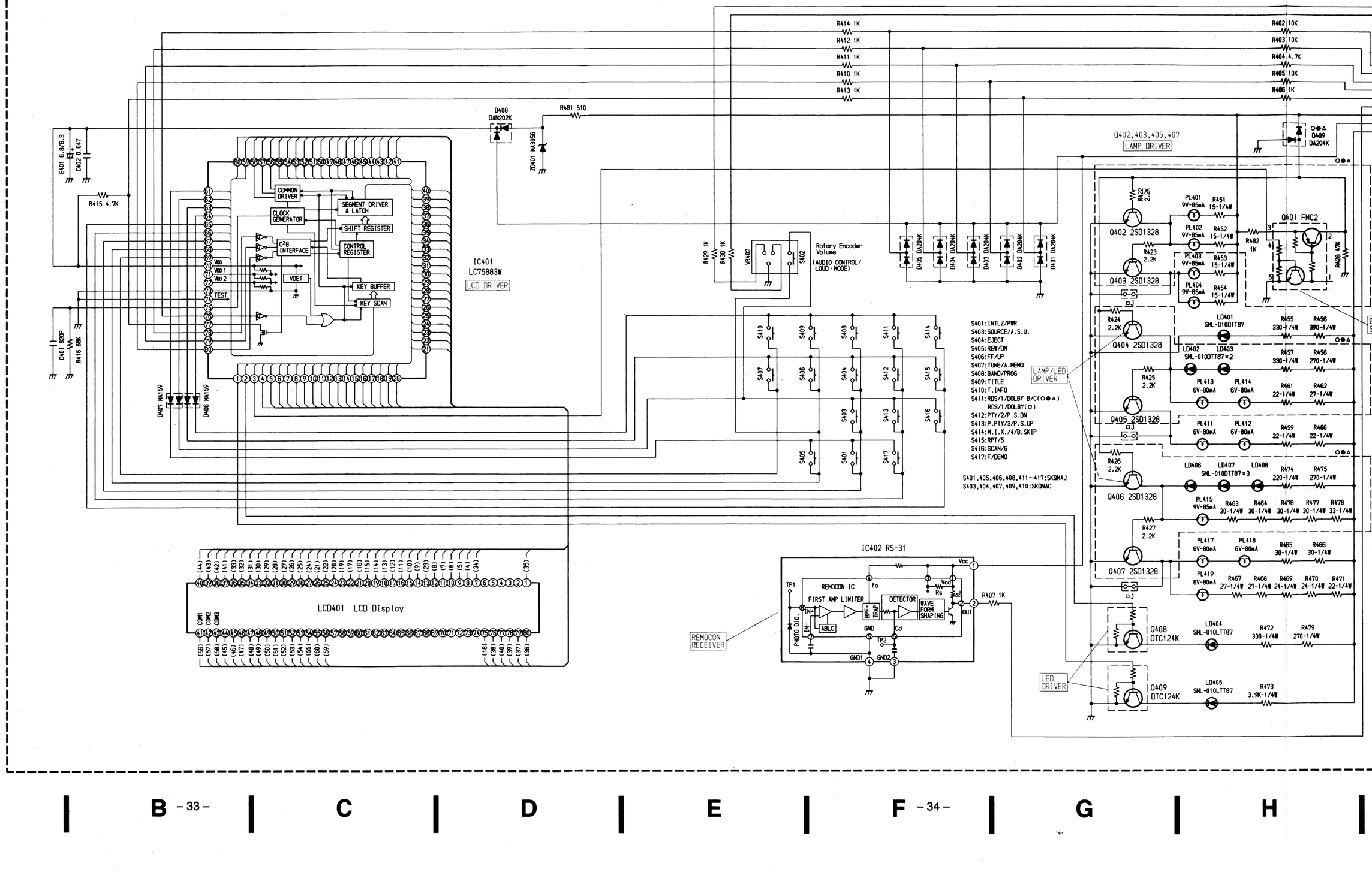
NOTE:

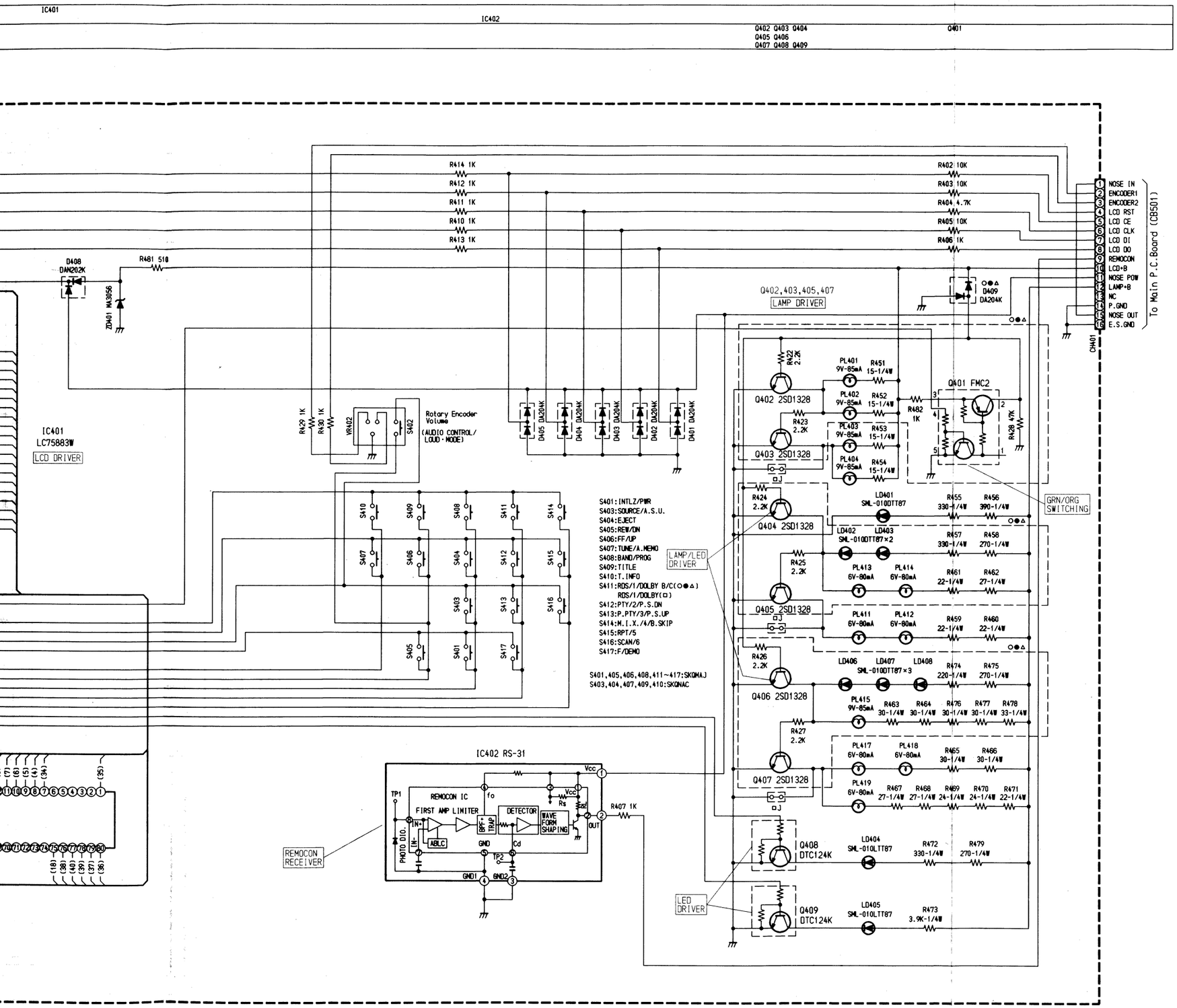
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1{,}000{,}000}$

Schematic Diagram (5/6)

IC	IC401	IC402	
Transistor (Q)		Q402 Q403 Q404 Q405 Q406 Q407 Q408 Q409	Q401

Front P.C.Board





IC401

1, 2	5V
3	0V/5V
4-60	DATA
61-69	PS
70	5.6V
71, 72	NC
73, 74	0V
75	OSC
76	5V
77-80	DATA

IC402

1	5V
2	DATA
3	0V
4	0V

	1	2	3	4	5	MODE
○●△Q401	NC	9V/0V	9.6V/9.6V	0V/5V	0V/0V	GRN/ORG

	E	C	B	MODE
○●△Q402	0V/0V	13.8V/0V	0V/9V	GRN/ORG
○●△Q403	0V/0V	0V/13.8V	13.8V/0V	GRN/ORG
○●△Q404	0V/0V	13.8V/0V	0V/9V	GRN/ORG
○●△Q405	0V/0V	0V/13.8V	13.8V/0V	GRN/ORG
○●△Q406	0V/0V	13.8V/0V	0V/9V	GRN/ORG
○●△Q407	0V/0V	0V/13.8V	13.8V/0V	GRN/ORG
Q408	0V	0V	5V	
Q409	0V	0V	5V	

<Measuring Conditions>

1. Power Supply Voltage : DC14V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   TAPE: Blank Tape Play

NOTE: ○ : For TDA-7556R Model Only,
● : For TDA-7659R Model Only,
△ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only,
Others : Common.

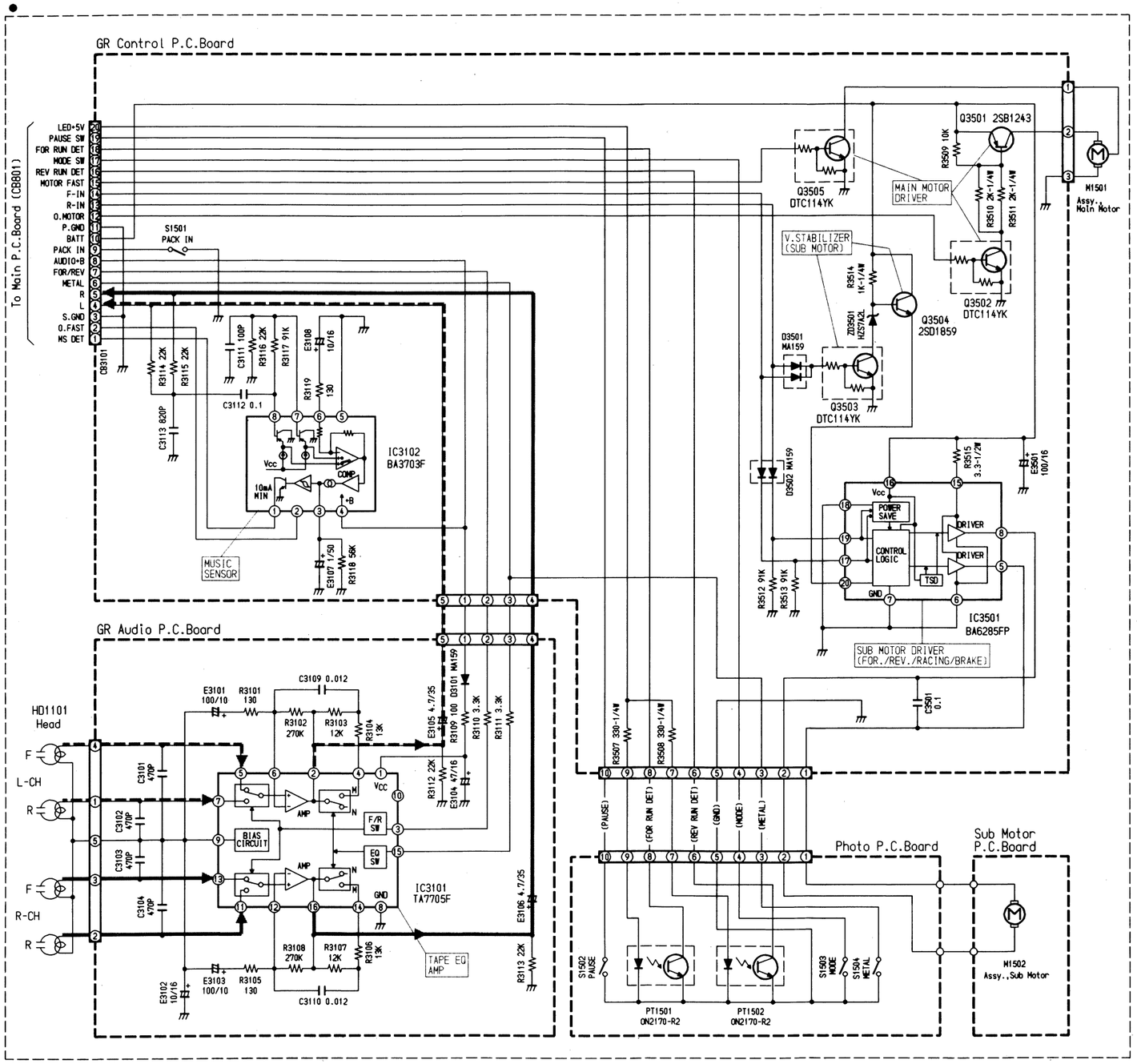
NOTE:

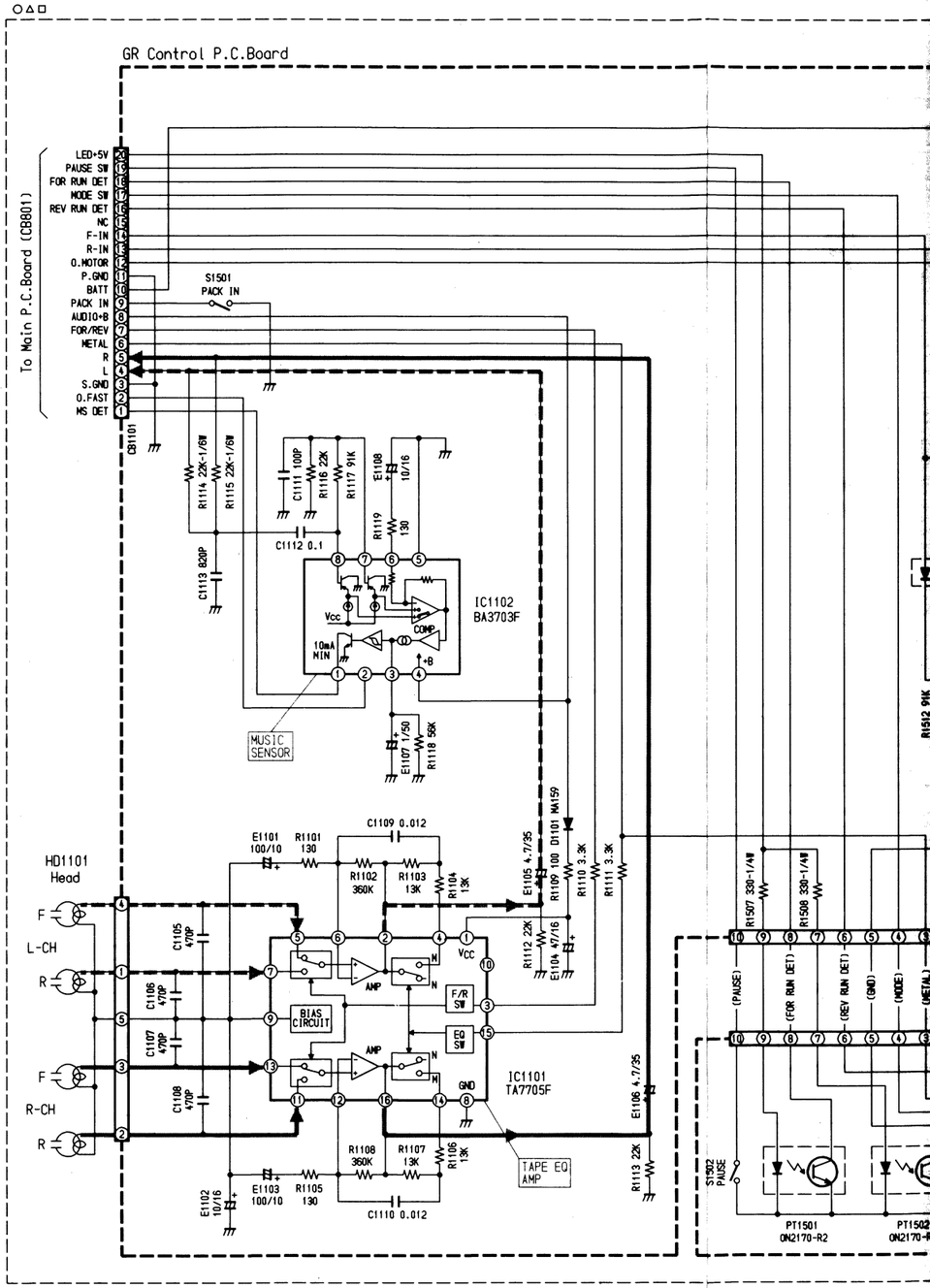
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1{,}000{,}000}$

TDA-7556R/7659R/
TDA-7552R/7550R

Schematic Diagram (6/6)

IC	IC3102 IC3101	IC3501	IC1102 IC1101
Transistor (Q,PT)	PT1501 PT1502	Q3505 Q3503 Q3504 Q3502 Q3501	PT1501 PT1502

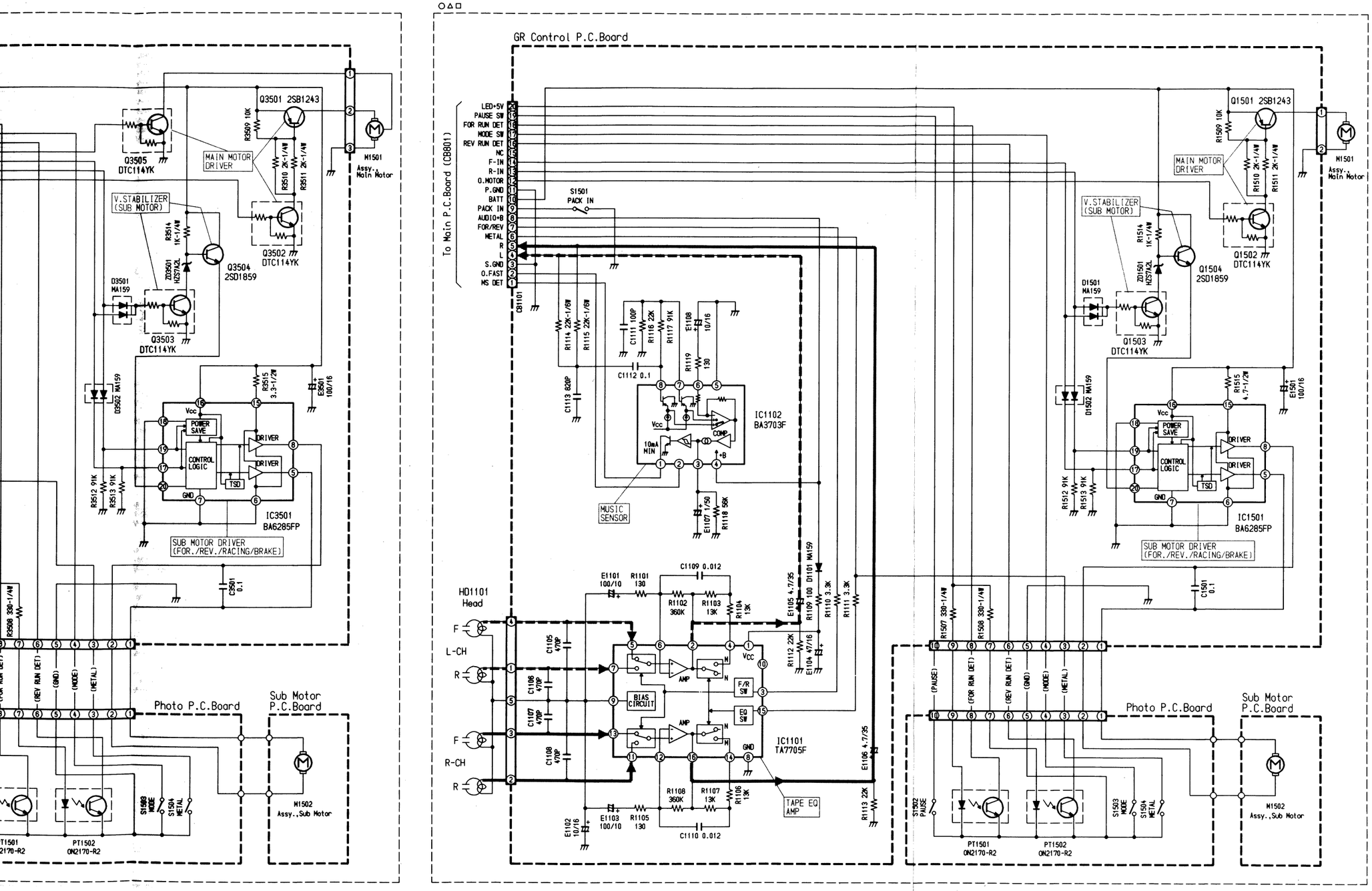




IC3501 IC1102 IC1101 IC1501

Q3505 Q3503 Q3504 Q3502 Q3501 Q1504 Q1502 Q1501 Q1503

PT1501 PT1502 PT1501 PT1502



○△□IC1101 ●IC3101

1	10.7V	9	3V
2	3.1V	10	NC
3	5.2V	11	3V
4	3.1V	12	3V
5	3V	13	3V
6	3V	14	3.1V
7	3V	15	0V
8	0V	16	3.1V

○△□IC1102 ●IC3102

1	5.2V
2	0V
3	0V
4	12V
5	0V
6	0.6V
7	0V
8	0V

○△□IC1501 ●IC3501

1-4	NC
5-8	0V
9-14	NC
15	12V
16	12V
17-19	0V
20	12V
21-24	NC

	E	C	B
○△□Q1501	12V	11.8V	11.3V
○△□Q1502	0V	0.1V	5V
○△□Q1503	0V	5.5V	0V
○△□Q1504	11.6V	12V	12V
●Q3501	12V	11.8V	11.3V
●Q3502	0V	0.1V	5V
●Q3503	0V	5.5V	0V
●Q3504	11.6V	12V	12V
●Q3505	0V	0.5V	0V

<Measuring Conditions>

1. Power Supply Voltage : DC12V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   TAPE: Blank Tape Play

NOTE: ○: For TDA-7556R Model Only,
●: For TDA-7659R Model Only,
△: For TDA-7552R Model Only,
□: For TDA-7550R Model Only,
Others : Common.

NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads.

$$P = \frac{1}{1{,}000{,}000}$$

Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor : „F=microfarads,pF=picofarads

Abbreviations

RES.= Resistor	CAP.= Capacitor
C.F.= Carbon Film	ELY.= Electrolytic
M.F.= Metal Film	CER.= Ceramic
M.O.= Metal Oxide Film	MYL.= Mylar
M.P.= Metal Plate	TAN.= Tantalum
TR. = Transistor	POLY.= Polystyrol
TRANS.= Transformer	PP. = Polypropylene
CP. = Chip	PLT.= Polyethylene
	PF. = Polyester Film

Symbol No.	Part No.	Description
Main P.C.Board		
IC's		
○ IC006	51T67915F01	M51143AL
● IC006	51T67915F01	M51143AL
△ IC006	51T67915F01	M51143AL
IC021	51T93336F01	NJM4558M
IC022	51T40941U03	MC14066BFL1
IC041	51T35504W02	LC7219
IC061	51T55054W02	SAA6579T
IC071	51T93336F01	NJM4558M
○ IC201	51T85167W01	CXA2502M
● IC201	51T85167W01	CXA2502M
△ IC201	51T85167W01	CXA2502M
□ IC201	51T11210W01	CXA1102M
IC221	51T65131W01	TEA6320T
○ IC222	51T92001F21	XRA4560F
● IC222	51T92001F21	XRA4560F
△ IC222	51T65379F22	XRA4558FH
□ IC222	51T65379F22	XRA4558FH
○ IC241	51T75584W01	TC9212F
● IC241	51T75584W01	TC9212F
○ IC242	51T92001F21	XRA4560F
● IC242	51T92001F21	XRA4560F
○ IC261	51T75464W01	TDA8576T
● IC261	51T75464W01	TDA8576T
○ IC271	51T75464W01	TDA8576T
● IC271	51T75464W01	TDA8576T
○ IC272	51T75464W01	TDA8576T
● IC272	51T75464W01	TDA8576T
IC291	51T40941U03	MC14066BFL1
○ IC301	51T92001F21	XRA4560F
● IC301	51T90149F03	M5218AFP
△ IC301	51T65379F22	XRA4558FH
□ IC301	51T65379F22	XRA4558FH
○ IC321	51T65379F22	XRA4558FH

Symbol No.	Part No.	Description
△ IC321	51T65379F22	XRA4558FH
□ IC321	51T65379F22	XRA4558FH
○ IC322	51T65379F22	XRA4558FH
○ IC361	51T85153W01	TDA7384
△ IC361	51T85153W01	TDA7384
□ IC361	51T85153W01	TDA7384
IC501	51T85151W08	85151W08
IC502	51T85088W01	85088W01
○ IC503	51T92001F21	XRA4560F
● IC503	51T92001F21	XRA4560F
IC821	51T95014F13	S-8052HNM-CR
IC841	51T65379F22	XRA4558FH
IC851	51T93332F01	NJM2903M
IC871	51T95014F09	S-8054ALR-LN
Transistors		
Q001	48T73888F08	CP., FMG1
Q002	48T62967F03	CP., DTC124K
Q003	48T73888F08	CP., FMG1
Q004	48T73888F08	CP., FMG1
Q021	48T62967F03	CP., DTC124K
Q022	48T73888F08	CP., FMG1
Q061	48T63420F01	CP., 2SA1037K
Q062	48T62967F03	CP., DTC124K
Q071	48T63417F01	CP., 2SC2412K
Q072	48T63420F01	CP., 2SA1037K
Q091	48T84234F03	2SB1238
Q092	48T84234F03	2SB1238
Q093	48T62967F03	CP., DTC124K
Q094	48T15289W03	2SD2008
Q095	48T93828F04	2SD1994A
○ Q201	48T94471F03	CP., IMH1
● Q201	48T94471F03	CP., IMH1
△ Q201	48T94471F03	CP., IMH1
Q291	48T73888F08	CP., FMG1
○ Q321	48T63788F04	CP., 2SD1328
● Q321	48T63788F04	CP., 2SD1328
○ Q322	48T63788F04	CP., 2SD1328
● Q322	48T63788F04	CP., 2SD1328
○ Q323	48T63788F04	CP., 2SD1328
● Q323	48T63788F04	CP., 2SD1328
△ Q323	48T62967F33	CP., DTC343TK
○ Q324	48T63788F04	CP., 2SD1328
● Q324	48T63788F04	CP., 2SD1328

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only, □ : For TDA-7550R Model Only, Others : Common.

Symbol No.	Part No.	Description
△ Q324	48T62967F33	CP., DTC343TK
○ Q325	48T63788F04	CP., 2SD1328
● Q325	48T63788F04	CP., 2SD1328
△ Q325	48T62967F33	CP., DTC343TK
□ Q325	48T62967F33	CP., DTC343TK
○ Q326	48T63788F04	CP., 2SD1328
● Q326	48T63788F04	CP., 2SD1328
△ Q326	48T62967F33	CP., DTC343TK
□ Q326	48T62967F33	CP., DTC343TK
Q501	48T63420F01	CP., 2SA1037K
Q502	48T62967F03	CP., DTC124K
Q503	48T73888F12	CP., FMC2
Q504	48T84366F01	2SB1243
Q505	48T62967F05	CP., DTC143XK
Q506	48T69176F01	2SC3421
Q507	48T73888F12	CP., FMC2
○ Q508	48T62966F01	CP., DTA143
● Q508	48T62966F01	CP., DTA143
● Q509	48T84366F04	2SB1243
● Q510	48T62967F03	CP., DTC124K
Q511	48T62967F23	CP., DTC143TK
Q512	48T62967F23	CP., DTC143TK
Q513	48T62967F23	CP., DTC143TK
○ Q811	48T62967F03	CP., DTC124K
● Q811	48T62967F03	CP., DTC124K
△ Q811	48T62967F03	CP., DTC124K
Q831	48T62967F03	CP., DTC124K
Q832	48T73888F12	CP., FMC2
Q833	48T73888F12	CP., FMC2
Q834	48T62967F03	CP., DTC124K
○ Q835	48T62967F03	CP., DTC124K
△ Q835	48T62967F03	CP., DTC124K
□ Q835	48T62967F03	CP., DTC124K
Q851	48T52437F01	CP., 2SB709A
Q852	48T52438F01	CP., 2SD601A
Q853	48T62966F03	CP., DTA124
Q871	48T15289W04	2SD2008
Q872	48T62966F03	CP., DTA124
Q873	48T62967F09	CP., DTC114TK
Q881	48T84366F04	2SB1243
Q882	48T62967F02	CP., DTC114K
Q885	48T63420F01	CP., 2SA1037K
Q886	48T62967F03	CP., DTC124K
Q887	48T25169W01	2SD2096
○ Q888	48T52438F01	CP., 2SD601A
● Q888	48T52438F01	CP., 2SD601A
△ Q888	48T52438F01	CP., 2SD601A

Symbol No.	Part No.	Description
Diodes / Surge Protector		
D001	48T52446F01	CP., MA151WK
D002	48T52446F01	CP., MA151WK
D003	48T64134F01	CP., DA204K
D071	48T68828F11	1SS133
○ D321	48T63463F01	CP., DAP202K
● D321	48T63463F01	CP., DAP202K
○ D322	48T63463F01	CP., DAP202K
● D322	48T63463F01	CP., DAP202K
○ D323	48T63463F01	CP., DAP202K
● D323	48T63463F01	CP., DAP202K
○ D361	48T85270W02	MPG06G
△ D361	48T85270W02	MPG06G
□ D361	48T85270W02	MPG06G
○ D362	48T85270W02	MPG06G
△ D362	48T85270W02	MPG06G
□ D362	48T85270W02	MPG06G
○ D363	48T85270W02	MPG06G
△ D363	48T85270W02	MPG06G
□ D363	48T85270W02	MPG06G
○ D364	48T85270W02	MPG06G
△ D364	48T85270W02	MPG06G
□ D364	48T85270W02	MPG06G
○ D365	48T85270W02	MPG06G
△ D365	48T85270W02	MPG06G
□ D365	48T85270W02	MPG06G
○ D366	48T85270W02	MPG06G
△ D366	48T85270W02	MPG06G
□ D366	48T85270W02	MPG06G
○ D367	48T85270W02	MPG06G
△ D367	48T85270W02	MPG06G
□ D367	48T85270W02	MPG06G
○ D368	48T85270W02	MPG06G
△ D368	48T85270W02	MPG06G
□ D368	48T85270W02	MPG06G
D501	48T68828F11	1SS133
D502	48T85270W02	MPG06G
D503	48T68580F03	DSA3A4
○ D505	48T25651W02	CP., MA152WK
● D505	48T25651W02	CP., MA152WK
D821	48T68828F11	1SS133
D831	48T63462F01	CP., DAN202K
D832	48T63462F01	CP., DAN202K
D851	48T63463F01	CP., DAP202K
D852	48T63462F01	CP., DAN202K
D853	48T68828F11	1SS133

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

	Symbol No.	Part No.	Description
	D872	48T68828F11	1SS133
	D881	48T85270W02	MPG06G
	D882	48T64134F01	CP., DA204K
	ZD091	48T25766W24	Zener, HZS9C1L
	ZD092	48T25766W01	Zener, HZS6A1L
	ZD502	48T25766W23	Zener, HZS9B3L
	ZD802	48T25766W13	Zener, HZS7B1L
	ZD833	48T25766W22	Zener, HZS9B2L
	ZD871	48T25766W04	Zener, HZS6B1L
□	ZD881	48T25766W26	Zener, HZS9C3L
○	ZD882	48T25766W25	Zener, HZS9C2L
●	ZD882	48T25766W25	Zener, HZS9C2L
△	ZD882	48T25766W25	Zener, HZS9C2L
	DSP001	48T81048F02	Surge Protector, DSP-201M
	Coils		
	L071	24T25798W13	Inductor, 1mH
	L501	24T75055W06	Choke
	L502	24T65110W16	CP., 1µH
	L503	24T65110W16	CP., 1µH
	Crystals		
	X041	91T85169W43	7.2MHz
	X061	91T45118W18	4.332MHz
	X501	91T85169W49	8.3886MHz
	X502	91T85169W27	4.9152MHz
	Filter / Buzzer		
	BPF001	91T75257W01	Filter, LPF11830K
○	BZ801	50T25148W02	CB13PA-225
●	BZ801	50T25148W02	CB13PA-225
△	BZ801	50T25148W02	CB13PA-225
	Switches		
	S501	40T45282W01	Slide, SLD-42-508 (Ai-NET • NORM/(EQ/DIV))
	S821	40T75104W01	Tact,SKHLLB (RESET)
	Capacitors		
	C001	08S65128F69	CP., 0.01µF
	E002	23S75372W05	ELY., 22µF / 16V
	C003	08S65128F35	CP., 100pF
	E003	23S75372W14	ELY., 0.68µF / 50V

	Symbol No.	Part No.	Description
	C004	08T15399W01	CP., 0.022µF
	C005	08T15399W03	CP., 0.047µF
	C006	08T15399W01	CP., 0.022µF
	C007	08T15807W05	CP., 0.1µF
	C008	08T15399W01	CP., 0.022µF
	C009	08T15399W01	CP., 0.022µF
	C010	08S65128F35	CP., 100pF
	C021	08S65128F69	CP., 0.01µF
	E021	23S75373W06	ELY., 100µF / 16V
○	C022	08T55390W29	TF, 0.1µF
●	C022	08T35122W13	PF., 0.1µF
△	C022	08T35122W13	PF., 0.1µF
□	C022	08T35122W13	PF., 0.1µF
	E022	23S75372W02	ELY., 100µF / 10V
	C023	08S65128F69	CP., 0.01µF
	E023	23S75372W10	ELY., 0.1µF / 50V
	C024	08T15399W02	CP., 0.033µF
	E024	23S75372W04	ELY., 10µF / 16V
○	C025	08T55390W31	TF, 0.15µF
●	C025	08T35122W15	PF., 0.15µF
△	C025	08T35122W15	PF., 0.15µF
□	C025	08T35122W15	PF., 0.15µF
	E025	23S75372W14	ELY., 0.68µF / 50V
	C026	23S82372F19	ELY., (B.P) 2.2µF / 50V
	C027	08T15399W02	CP., 0.033µF
	C028	08S65128F69	CP., 0.01µF
	C029	08S65128F69	CP., 0.01µF
	C030	08T15399W01	CP., 0.022µF
	C041	08S82122F31	CP., 56pF
	E041	23S75372W05	ELY., 22µF / 16V
	C042	08T15399W01	CP., 0.022µF
	C043	08S82122F19	CP., 18pF
	C044	08S82122F19	CP., 18pF
○	C051	08S35374W01	CP., 0.1µF
●	C051	08S35374W01	CP., 0.1µF
△	C051	08S35374W01	CP., 0.1µF
○	E051	23S75372W06	ELY., 33µF / 16V
●	E051	23S75372W06	ELY., 33µF / 16V
△	E051	23S75372W06	ELY., 33µF / 16V
○	C052	08S82122F33	CP., 68pF
●	C052	08S82122F33	CP., 68pF
△	C052	08S82122F33	CP., 68pF
○	E052	23S75372W10	ELY., 0.1µF / 50V
●	E052	23S75372W10	ELY., 0.1µF / 50V
△	E052	23S75372W10	ELY., 0.1µF / 50V
○	E053	23S75372W15	ELY., 1µF / 50V
●	E053	23S75372W15	ELY., 1µF / 50V

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

Symbol No.	Part No.	Description
△ E053	23S75372W15	ELY., 1μF / 50V
○ E054	23S75372W04	ELY., 10μF / 16V
● E054	23S75372W04	ELY., 10μF / 16V
△ E054	23S75372W04	ELY., 10μF / 16V
C061	08S82122F23	CP., 27pF
E061	23S75372W04	ELY., 10μF / 16V
C062	08S82122F23	CP., 27pF
E062	23S75372W16	ELY., 2.2μF / 50V
C063	08S82122F49	CP., 330pF
E063	23S75372W04	ELY., 10μF / 16V
C064	08S65128F53	CP., 560pF
C071	08S65128F69	CP., 0.01μF
E071	23S75372W10	ELY., 0.1μF / 50V
C072	08S65128F56	CP., 820pF
C073	08T15399W01	CP., 0.022μF
C074	08S65128F35	CP., 100pF
C075	08S65128F69	CP., 0.01μF
C076	08S65128F61	CP., 2200pF
C077	08S65128F69	CP., 0.01μF
C078	08S65128F81	CP., 0.039μF
C091	08T15399W01	CP., 0.022μF
E091	23S75372W03	ELY., 220μF / 10V
C092	08T15399W01	CP., 0.022μF
E092	23S75372W04	ELY., 10μF / 16V
○ C201	08T55390W27	TF, 0.068μF
● C201	08T35122W11	PF., 0.068μF
△ C201	08T35122W11	PF., 0.068μF
E201	23S75372W15	ELY., 1μF / 50V
○ C202	08T55390W27	TF, 0.068μF
● C202	08T35122W11	PF., 0.068μF
△ C202	08T35122W11	PF., 0.068μF
E202	23S75372W15	ELY., 1μF / 50V
E203	23S75372W04	ELY., 10μF / 16V
E204	23S75372W09	ELY., 4.7μF / 35V
○ E205	23S75372W10	ELY., 0.1μF / 50V
● E205	23S75372W10	ELY., 0.1μF / 50V
△ E205	23S75372W10	ELY., 0.1μF / 50V
□ E205	23S75372W14	ELY., 0.68μF / 50V
○ E206	23S75372W10	ELY., 0.1μF / 50V
● E206	23S75372W10	ELY., 0.1μF / 50V
△ E206	23S75372W10	ELY., 0.1μF / 50V
□ E206	23S75372W14	ELY., 0.68μF / 50V
○ E207	23S75372W04	ELY., 10μF / 16V
● E207	23S75372W04	ELY., 10μF / 16V
△ E207	23S75372W04	ELY., 10μF / 16V
□ E207	23S75372W05	ELY., 22μF / 16V
○ C221	08T55390W23	TF, 0.033μF

Symbol No.	Part No.	Description
● C221	08T35122W07	PF., 0.033μF
△ C221	08T35122W07	PF., 0.033μF
E221	23S75372W15	ELY., 1μF / 50V
○ C222	08T55390W23	TF, 0.033μF
● C222	08T35122W07	PF., 0.033μF
△ C222	08T35122W07	PF., 0.033μF
E222	23S75372W15	ELY., 1μF / 50V
○ C223	08T55390W14	PF., 5600pF
● C223	08T55390W14	PF., 5600pF
△ C223	08T55390W14	PF., 5600pF
E223	23S75372W09	ELY., 4.7μF / 35V
○ C224	08T55390W14	PF., 5600pF
● C224	08T55390W14	PF., 5600pF
△ C224	08T55390W14	PF., 5600pF
E224	23S75372W09	ELY., 4.7μF / 35V
□ C225	08T15399W02	CP., 0.033μF
□ C226	08T15399W02	CP., 0.033μF
□ C227	08S65128F66	CP., 5600pF
E227	23S75372W15	ELY., 1μF / 50V
□ C228	08S65128F66	CP., 5600pF
E228	23S75372W02	ELY., 100μF / 10V
C229	08S65128F69	CP., 0.01μF
E229	23S75372W15	ELY., 1μF / 50V
E230	23S75372W15	ELY., 1μF / 50V
E231	23S75372W15	ELY., 1μF / 50V
E232	23S75372W07	ELY., 47μF / 16V
○ E243	23S75372W15	ELY., 1μF / 50V
● E243	23S75372W15	ELY., 1μF / 50V
○ E244	23S75372W15	ELY., 1μF / 50V
● E244	23S75372W15	ELY., 1μF / 50V
○ E245	23S75372W09	ELY., 4.7μF / 35V
● E245	23S75372W09	ELY., 4.7μF / 35V
○ E246	23S75372W09	ELY., 4.7μF / 35V
● E246	23S75372W09	ELY., 4.7μF / 35V
○ E247	23S75372W15	ELY., 1μF / 50V
● E247	23S75372W15	ELY., 1μF / 50V
○ E261	23S75372W05	ELY., 22μF / 16V
● E261	23S75372W05	ELY., 22μF / 16V
○ C262	08S65128F56	CP., 820pF
● C262	08S65128F56	CP., 820pF
○ E262	23S75372W05	ELY., 22μF / 16V
● E262	23S75372W05	ELY., 22μF / 16V
○ E263	23S75372W08	ELY., 100μF / 16V
● E263	23S75372W08	ELY., 100μF / 16V
○ E264	23S75372W08	ELY., 100μF / 16V
● E264	23S75372W08	ELY., 100μF / 16V
○ C265	08S65128F56	CP., 820pF

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

	Symbol No.	Part No.	Description
●	C265	08S65128F56	CP., 820pF
○	E265	23S75372W07	ELY., 47µF / 16V
●	E265	23S75372W07	ELY., 47µF / 16V
○	E266	23S75372W04	ELY., 10µF / 16V
●	E266	23S75372W04	ELY., 10µF / 16V
○	E271	23S75372W05	ELY., 22µF / 16V
●	E271	23S75372W05	ELY., 22µF / 16V
○	C272	08S65128F56	CP., 820pF
●	C272	08S65128F56	CP., 820pF
○	E272	23S75372W05	ELY., 22µF / 16V
●	E272	23S75372W05	ELY., 22µF / 16V
○	E273	23S75372W08	ELY., 100µF / 16V
●	E273	23S75372W08	ELY., 100µF / 16V
○	E274	23S75372W08	ELY., 100µF / 16V
●	E274	23S75372W08	ELY., 100µF / 16V
○	C275	08S65128F56	CP., 820pF
●	C275	08S65128F56	CP., 820pF
○	E275	23S75372W05	ELY., 22µF / 16V
●	E275	23S75372W05	ELY., 22µF / 16V
○	E276	23S75372W04	ELY., 10µF / 16V
●	E276	23S75372W04	ELY., 10µF / 16V
○	E277	23S75372W05	ELY., 22µF / 16V
●	E277	23S75372W05	ELY., 22µF / 16V
○	C278	08S65128F56	CP., 820pF
●	C278	08S65128F56	CP., 820pF
○	E278	23S75372W05	ELY., 22µF / 16V
●	E278	23S75372W05	ELY., 22µF / 16V
○	E279	23S75372W08	ELY., 100µF / 16V
●	E279	23S75372W08	ELY., 100µF / 16V
○	E280	23S75372W08	ELY., 100µF / 16V
●	E280	23S75372W08	ELY., 100µF / 16V
○	C281	08S65128F56	CP., 820pF
●	C281	08S65128F56	CP., 820pF
○	E281	23S75372W05	ELY., 22µF / 16V
●	E281	23S75372W05	ELY., 22µF / 16V
○	E282	23S75372W04	ELY., 10µF / 16V
●	E282	23S75372W04	ELY., 10µF / 16V
○	E283	23S75372W05	ELY., 22µF / 16V
●	E283	23S75372W05	ELY., 22µF / 16V
○	E284	23S75372W05	ELY., 22µF / 16V
●	E284	23S75372W05	ELY., 22µF / 16V
	E301	23S75372W04	ELY., 10µF / 16V
	E302	23S75372W04	ELY., 10µF / 16V
	E303	23S75372W04	ELY., 10µF / 16V
	E304	23S75372W04	ELY., 10µF / 16V
	E305	23S75372W04	ELY., 10µF / 16V
○	E321	23S75372W04	ELY., 10µF / 16V

	Symbol No.	Part No.	Description
△	E321	23S75372W04	ELY., 10µF / 16V
□	E321	23S75372W04	ELY., 10µF / 16V
○	E322	23S75372W04	ELY., 10µF / 16V
○	E323	23S75372W04	ELY., 10µF / 16V
●	E323	23S75372W04	ELY., 10µF / 16V
○	E324	23S75372W04	ELY., 10µF / 16V
●	E324	23S75372W04	ELY., 10µF / 16V
○	E325	23S75372W04	ELY., 10µF / 16V
●	E325	23S75372W04	ELY., 10µF / 16V
△	E325	23S75372W04	ELY., 10µF / 16V
○	E326	23S75372W04	ELY., 10µF / 16V
●	E326	23S75372W04	ELY., 10µF / 16V
△	E326	23S75372W04	ELY., 10µF / 16V
	E327	23S75372W04	ELY., 10µF / 16V
	E328	23S75372W04	ELY., 10µF / 16V
○	C361	08T15807W05	CP., 0.1µF
△	C361	08T15807W05	CP., 0.1µF
□	C361	08T15807W05	CP., 0.1µF
○	E365	23T75478W35	ELY., 0.33µF / 50V
△	E365	23T75478W35	ELY., 0.33µF / 50V
□	E365	23T75478W35	ELY., 0.33µF / 50V
○	E366	23T75478W35	ELY., 0.33µF / 50V
△	E366	23T75478W35	ELY., 0.33µF / 50V
□	E366	23T75478W35	ELY., 0.33µF / 50V
○	E367	23T75478W35	ELY., 0.33µF / 50V
△	E367	23T75478W35	ELY., 0.33µF / 50V
□	E367	23T75478W35	ELY., 0.33µF / 50V
○	E368	23T75478W35	ELY., 0.33µF / 50V
△	E368	23T75478W35	ELY., 0.33µF / 50V
□	E368	23T75478W35	ELY., 0.33µF / 50V
○	E369	23T75478W37	ELY., 1µF / 50V
△	E369	23T75478W37	ELY., 1µF / 50V
□	E369	23T75478W37	ELY., 1µF / 50V
○	E370	23T75478W18	ELY., 47µF / 16V
△	E370	23T75478W18	ELY., 47µF / 16V
□	E370	23T75478W18	ELY., 47µF / 16V
○	E371	23T75478W37	ELY., 1µF / 50V
△	E371	23T75478W37	ELY., 1µF / 50V
□	E371	23T75478W37	ELY., 1µF / 50V
	C501	08S65128F69	CP., 0.01µF
	E501	23S75372W03	ELY., 220µF / 10V
	C502	08S82122F21	CP., 22pF
	E502	23S75372W02	ELY., 100µF / 10V
	C503	08S82122F21	CP., 22pF
○	E503	23S75372W04	ELY., 10µF / 16V
●	E503	23S75372W15	ELY., 1µF / 50V
△	E503	23S75372W09	ELY., 4.7µF / 35V

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

Symbol No.	Part No.	Description
□ E503	23S75372W16	ELY., 2.2μF / 50V
C504	08T15399W01	CP., 0.022μF
E504	23T00149L27	ELY., 330μF / 16V
E505	23T00149L26	ELY., 220μF / 16V
● E506	23S75373W06	ELY., 100μF / 16V
C507	08S82122F23	CP., 27pF
○ E507	23T75346W02	ELY., 4700μF / 16V
● E507	23T75346W01	ELY., 2200μF / 16V
△ E507	23T75346W02	ELY., 4700μF / 16V
□ E507	23T75346W02	ELY., 4700μF / 16V
C508	08S82122F22	CP., 24pF
E508	23S75372W15	ELY., 1μF / 50V
C509	08T15399W01	CP., 0.022μF
E509	23S75372W15	ELY., 1μF / 50V
E510	23S75372W04	ELY., 10μF / 16V
C511	08S65128F35	CP., 100pF
E511	23S75372W15	ELY., 1μF / 50V
C513	08S65128F35	CP., 100pF
C514	08S65128F35	CP., 100pF
C515	08S65128F35	CP., 100pF
C517	08S65128F35	CP., 100pF
C521	08S65128F35	CP., 100pF
C522	08S65128F35	CP., 100pF
○ C523	08S65128F69	CP., 0.01μF
● C523	08S65128F69	CP., 0.01μF
C526	08T15399W01	CP., 0.022μF
C527	08T15399W01	CP., 0.022μF
○ C529	08S65128F35	CP., 100pF
△ C529	08S65128F35	CP., 100pF
□ C529	08S65128F35	CP., 100pF
C530	08S65128F69	CP., 0.01μF
C532	08S65128F35	CP., 100pF
C801	08S65128F35	CP., 100pF
E821	23S75372W04	ELY., 10μF / 16V
C831	08S53332F23	CP., 100pF
C832	08T15807W05	CP., 0.1μF
○ E832	23S75372W04	ELY., 10μF / 16V
△ E832	23S75372W04	ELY., 10μF / 16V
□ E832	23S75372W04	ELY., 10μF / 16V
E841	23S75372W02	ELY., 100μF / 10V
E843	23S75372W09	ELY., 4.7μF / 35V
C851	08S82122F37	CP., 100pF
E851	23S75372W04	ELY., 10μF / 16V
C852	08S82122F23	CP., 27pF
C871	08S65128F69	CP., 0.01μF
E871	23S75372W15	ELY., 1μF / 50V
E872	23S75372W10	ELY., 0.1μF / 50V

Symbol No.	Part No.	Description
○ C881	08S65128F69	CP., 0.01μF
● C881	08S65128F69	CP., 0.01μF
△ C881	08S65128F69	CP., 0.01μF
E881	23S75372W04	ELY., 10μF / 16V

Resistors		(All resistors are chip 1/10W±5% unless otherwise noted.)
R001	06S64995F53	1K ohm
R002	06S64995F77	10K ohm
R004	06S64995F77	10K ohm
R005	06S64995F77	10K ohm
R006	06S64995F81	15K ohm
R007	06S64995F61	2.2K ohm
R008	06S64995F53	1K ohm
R009	06S64995F61	2.2K ohm
R014	06S64995F77	10K ohm
R021	06S64995F53	1K ohm
R022	06S64995F53	1K ohm
R023	06S64995F61	2.2K ohm
R024	06S64995F61	2.2K ohm
R025	06S64995F29	100 ohm
R026	06S64995F83	18K ohm
R027	06S64995F85	22K ohm
R028	06S64995F53	1K ohm
R029	06S64995F71	5.6K ohm
R030	06S70072F29	100 ohm 1/4W
R031	06S64995F77	10K ohm
R032	06S64995F61	2.2K ohm
R033	06S64995F53	1K ohm
R034	06S64995F53	1K ohm
R041	06S64995F53	1K ohm
R042	06S64995F93	47K ohm
R043	06S64995F53	1K ohm
R044	06S64995F93	47K ohm
○ R051	06S64995F89	33K ohm
● R051	06S64995F89	33K ohm
△ R051	06S64995F89	33K ohm
○ R052	06S64995F89	33K ohm
● R052	06S64995F89	33K ohm
△ R052	06S64995F89	33K ohm
○ R053	06S64996F26	1M ohm
● R053	06S64996F26	1M ohm
△ R053	06S64996F26	1M ohm
○ R054	06S64996F01	91K ohm
● R054	06S64996F01	91K ohm
△ R054	06S64996F01	91K ohm

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

	Symbol No.	Part No.	Description
	R061	06S64995F61	2.2K ohm
	R062	06S64995F69	4.7K ohm
	R063	06S64995F77	10K ohm
	R064	06S64995F53	1K ohm
	R065	06S64995F53	1K ohm
	R071	06S64996F02	100K ohm
	R072	06S64995F77	10K ohm
	R073	06S64995F81	15K ohm
	R074	06S64996F10	220K ohm
	R075	06S64996F14	330K ohm
	R076	06S64995F29	100 ohm
	R077	06S64995F77	10K ohm
	R078	06S64996F04	120K ohm
	R079	06S64995F13	22 ohm
	R080	06S64996F02	100K ohm
	R081	06S64996F02	100K ohm
	R091	06S64995F65	3.3K ohm
	R092	06S64995F53	1K ohm
	R093	06S70072F61	2.2K ohm 1/4W
	R094	06S64995F77	10K ohm
	R095	06S70072F41	330 ohm 1/4W
	R096	06S53330F73	6.8K ohm 1/8W
	R201	06S64996F30	2.2M ohm
	R202	06S64996F30	2.2M ohm
	R203	06S64995F62	2.4K ohm
	R204	06S64995F62	2.4K ohm
	R205	06S64995F59	1.8K ohm
	R206	06S64995F59	1.8K ohm
○	R207	06S64995F84	20K ohm
●	R207	06S64995F84	20K ohm
△	R207	06S64995F84	20K ohm
□	R207	06S64995F92	43K ohm
○	R208	06S64995F79	12K ohm
●	R208	06S64995F79	12K ohm
△	R208	06S64995F79	12K ohm
○	R209	06S64995F37	220 ohm
●	R209	06S64995F37	220 ohm
△	R209	06S64995F37	220 ohm
○	R210	06S64995F75	8.2K ohm
●	R210	06S64995F75	8.2K ohm
△	R210	06S64995F75	8.2K ohm
□	R211	06S64995F69	4.7K ohm
	R221	06S64995F77	10K ohm
	R222	06S64995F77	10K ohm
	R223	06S64995F77	10K ohm
	R224	06S64995F77	10K ohm
○	R243	06S64996F02	100K ohm

	Symbol No.	Part No.	Description
●	R243	06S64996F02	100K ohm
○	R244	06S64996F02	100K ohm
●	R244	06S64996F02	100K ohm
○	R247	06S64995F65	3.3K ohm
●	R247	06S64995F65	3.3K ohm
○	R248	06S64995F65	3.3K ohm
●	R248	06S64995F65	3.3K ohm
○	R261	06S64995F90	36K ohm
●	R261	06S64995F90	36K ohm
○	R262	06S64995F90	36K ohm
●	R262	06S64995F90	36K ohm
○	R263	06S64995F90	36K ohm
●	R263	06S64995F90	36K ohm
○	R264	06S64995F90	36K ohm
●	R264	06S64995F90	36K ohm
○	R271	06S64995F90	36K ohm
●	R271	06S64995F90	36K ohm
○	R272	06S64995F90	36K ohm
●	R272	06S64995F90	36K ohm
○	R273	06S64995F90	36K ohm
●	R273	06S64995F90	36K ohm
○	R274	06S64995F90	36K ohm
●	R274	06S64995F90	36K ohm
○	R276	06S64995F90	36K ohm
●	R276	06S64995F90	36K ohm
○	R277	06S64995F90	36K ohm
●	R277	06S64995F90	36K ohm
○	R278	06S64995F90	36K ohm
●	R278	06S64995F90	36K ohm
○	R279	06S64995F90	36K ohm
●	R279	06S64995F90	36K ohm
	R291	06S64995F61	2.2K ohm
	R292	06S64995F61	2.2K ohm
	R301	06T15443W85	22K ohm
	R302	06T15443W85	22K ohm
	R303	06T15443W85	22K ohm
	R304	06T15443W85	22K ohm
	R305	06T15443W79	12K ohm
	R306	06T15443W79	12K ohm
	R307	06T15443W79	12K ohm
	R308	06T15443W79	12K ohm
○	R321	06S64995F77	10K ohm
○	R322	06S64995F77	10K ohm
○	R323	06S64995F77	10K ohm
○	R324	06S64995F77	10K ohm
○	R325	06S64995F77	10K ohm
○	R326	06S64995F77	10K ohm

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

Symbol No.	Part No.	Description
○ R327	06S64995F77	10K ohm
○ R328	06S64995F77	10K ohm
○ R329	06S64995F37	220 ohm
● R329	06S64995F37	220 ohm
○ R330	06S64995F37	220 ohm
● R330	06S64995F37	220 ohm
○ R331	06S64995F65	3.3K ohm
● R331	06S64995F71	5.6K ohm
○ R332	06S64995F65	3.3K ohm
● R332	06S64995F71	5.6K ohm
○ R333	06S64995F29	100 ohm
● R333	06S64995F29	100 ohm
○ R334	06S64995F29	100 ohm
● R334	06S64995F29	100 ohm
○ R335	06S64995F85	22K ohm
● R335	06S64995F89	33K ohm
○ R336	06S64995F85	22K ohm
● R336	06S64995F89	33K ohm
○ R337	06S64995F37	220 ohm
● R337	06S64995F37	220 ohm
△ R337	06S64995F37	220 ohm
○ R338	06S64995F37	220 ohm
● R338	06S64995F37	220 ohm
△ R338	06S64995F37	220 ohm
○ R339	06S64995F65	3.3K ohm
● R339	06S64995F71	5.6K ohm
○ R340	06S64995F65	3.3K ohm
● R340	06S64995F71	5.6K ohm
○ R341	06S64995F29	100 ohm
● R341	06S64995F29	100 ohm
△ R341	06S64995F29	100 ohm
○ R342	06S64995F29	100 ohm
● R342	06S64995F29	100 ohm
△ R342	06S64995F29	100 ohm
○ R343	06S64995F85	22K ohm
● R343	06S64995F89	33K ohm
△ R343	06S64995F85	22K ohm
○ R344	06S64995F85	22K ohm
● R344	06S64995F89	33K ohm
△ R344	06S64995F85	22K ohm
○ R345	06S64995F37	220 ohm
● R345	06S64995F37	220 ohm
△ R345	06S64995F37	220 ohm
○ R346	06S64995F37	220 ohm
● R346	06S64995F37	220 ohm
△ R346	06S64995F37	220 ohm
○ R347	06S64995F65	3.3K ohm

Symbol No.	Part No.	Description
● R347	06S64995F65	3.3K ohm
○ R348	06S64995F65	3.3K ohm
● R348	06S64995F65	3.3K ohm
R349	06S64995F29	100 ohm
R350	06S64995F29	100 ohm
○ R351	06S64995F85	22K ohm
● R351	06S64995F89	33K ohm
△ R351	06S64995F85	22K ohm
□ R351	06S64995F85	22K ohm
○ R352	06S64995F85	22K ohm
● R352	06S64995F89	33K ohm
△ R352	06S64995F85	22K ohm
□ R352	06S64995F85	22K ohm
△ R353	06S64995F53	1K ohm
△ R354	06S64995F53	1K ohm
△ R355	06S64995F53	1K ohm
□ R355	06S64995F61	2.2K ohm
△ R356	06S64995F53	1K ohm
□ R356	06S64995F61	2.2K ohm
○ R373	06S64995F77	10K ohm
△ R373	06S64995F77	10K ohm
□ R373	06S64995F77	10K ohm
R501	06S64995F85	22K ohm
R502	06S64995F77	10K ohm
R503	06S64995F53	1K ohm
R504	06S64995F53	1K ohm
R505	06S64995F53	1K ohm
R506	06S64995F53	1K ohm
R507	06S64995F53	1K ohm
R508	06S64995F53	1K ohm
R509	06S64995F53	1K ohm
R510	06S64995F53	1K ohm
R511	06S64995F77	10K ohm
R512	06S64995F61	2.2K ohm
R513	06S64995F53	1K ohm
R514	06S64995F85	22K ohm
R515	06S64995F61	2.2K ohm
R516	06S64995F61	2.2K ohm
R517	06S64995F85	22K ohm
R518	06S64995F85	22K ohm
R519	06S64995F53	1K ohm
R520	06S64995F53	1K ohm
R521	06S64995F93	47K ohm
○ R523	06S64995F78	11K ohm
● R523	06S64995F77	10K ohm
△ R523	06S64995F85	22K ohm
□ R523	06S64995F88	30K ohm

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

Symbol No.	Part No.	Description
○ R524	06S64995F87	27K ohm
△ R524	06S64995F81	15K ohm
□ R524	06S64995F69	4.7K ohm
R525	06S64995F85	22K ohm
R526	06S64995F85	22K ohm
R528	06S64995F93	47K ohm
R530	06S64995F53	1K ohm
R532	06S64995F93	47K ohm
R533	06S64995F93	47K ohm
R534	06S64995F93	47K ohm
R535	06S64996F02	100K ohm
R538	06S64996F10	220K ohm
R539	06S64995F53	1K ohm
R540	06S64995F93	47K ohm
R541	06S64995F53	1K ohm
R543	06S64995F93	47K ohm
R544	06S64995F93	47K ohm
R545	06S64995F93	47K ohm
R546	06S64995F53	1K ohm
R547	06S64995F53	1K ohm
R548	06S64995F53	1K ohm
R550	06S64995F79	12K ohm
○ R551	06S64995F53	1K ohm
● R551	06S64995F53	1K ohm
○ R552	06S64995F93	47K ohm
● R552	06S64995F93	47K ohm
△ R552	06S64995F77	10K ohm
□ R552	06S64995F77	10K ohm
R556	06S70072F77	10K ohm 1/4W
R557	06S70072F59	1.8K ohm 1/4W
R558	06S70072F59	1.8K ohm 1/4W
R559	06S70072F59	1.8K ohm 1/4W
R560	06S70072F59	1.8K ohm 1/4W
R561	06S64996F02	100K ohm
R562	06S70072F53	1K ohm 1/4W
R564	06S70072F39	270 ohm 1/4W
R565	06S70072F39	270 ohm 1/4W
R566	06S64995F93	47K ohm
○ R567	06S64995F77	10K ohm
● R567	06S64995F77	10K ohm
● R568	06S53330F77	10K ohm 1/8W
● R569	06S70072F61	2.2K ohm 1/4W
R570	06S64996F02	100K ohm
□ R573	06S64995F37	220 ohm
□ R574	06S64995F37	220 ohm
R575	06S64995F53	1K ohm
R576	06S64995F53	1K ohm

Symbol No.	Part No.	Description
R577	06S64995F53	1K ohm
R578	06S64995F53	1K ohm
R579	06S64995F53	1K ohm
R580	06S64995F53	1K ohm
R581	06S64995F94	51K ohm
R582	06S64995F94	51K ohm
R583	06S64995F53	1K ohm
R584	06S64995F53	1K ohm
R585	06S64995F53	1K ohm
R587	06S64996F02	100K ohm
R588	06S64995F53	1K ohm
R589	06S64995F53	1K ohm
R590	06S64995F53	1K ohm
R591	06S64995F53	1K ohm
R592	06S64995F53	1K ohm
R593	06S64995F53	1K ohm
R594	06S64995F53	1K ohm
R595	06S64995F77	10K ohm
○ R596	06S64995F85	22K ohm
● R596	06S64995F85	22K ohm
○ R597	06S64995F85	22K ohm
● R597	06S64995F85	22K ohm
○ R598	06S64995F67	3.9K ohm
● R598	06S64995F67	3.9K ohm
○ R599	06S64995F67	3.9K ohm
● R599	06S64995F67	3.9K ohm
□ R600	06S64995F61	2.2K ohm
R802	06S64995F89	33K ohm
R803	06S64995F89	33K ohm
R804	06S64995F93	47K ohm
R805	06S64995F93	47K ohm
R806	06S64995F93	47K ohm
R807	06S64995F93	47K ohm
R808	06S64995F93	47K ohm
○ R811	06S64995F77	10K ohm
● R811	06S64995F77	10K ohm
△ R811	06S64995F77	10K ohm
○ R812	06S64995F53	1K ohm
● R812	06S64995F53	1K ohm
△ R812	06S64995F53	1K ohm
○ R813	06S64995F53	1K ohm
● R813	06S64995F53	1K ohm
△ R813	06S64995F53	1K ohm
R821	06S64995F85	22K ohm
R822	06S64995F69	4.7K ohm
R823	06S64995F61	2.2K ohm
R831	06S64995F77	10K ohm

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

Symbol No.	Part No.	Description
	R834	06S70072F53	1K ohm 1/4W
	R835	06S70072F77	10K ohm 1/4W
○	R837	06S64995F77	10K ohm
△	R837	06S64995F77	10K ohm
□	R837	06S64995F77	10K ohm
○	R838	06S64995F81	15K ohm
△	R838	06S64995F81	15K ohm
□	R838	06S64995F81	15K ohm
○	R839	06S64995F37	220 ohm
△	R839	06S64995F37	220 ohm
□	R839	06S64995F37	220 ohm
	R851	06S64995F73	6.8K ohm
	R852	06S64995F77	10K ohm
	R853	06S64995F77	10K ohm
	R854	06S64995F69	4.7K ohm
	R855	06S64995F73	6.8K ohm
	R856	06S64995F77	10K ohm
	R857	06S64995F77	10K ohm
	R858	06S70072F19	39 ohm 1/4W
	R859	06S70072F19	39 ohm 1/4W
	R860	06S70072F19	39 ohm 1/4W
	R861	06S70072F19	39 ohm 1/4W
	R862	06S64995F61	2.2K ohm
	R863	06S64995F57	1.5K ohm
	R864	06S64995F57	1.5K ohm
	R865	06S64995F61	2.2K ohm
	R866	06S64995F55	1.2K ohm
	R867	06S70072F05	10 ohm 1/4W
	R871	06S70072F67	3.9K ohm 1/4W
	R872	06S53330F69	4.7K ohm 1/8W
	R873	06S53330F69	4.7K ohm 1/8W
	R881	06S53330F77	10K ohm 1/8W
	R883	06S70072F59	1.8K ohm 1/4W
	R884	06S64995F77	10K ohm
	R888	06S70072F89	9.1 ohm 1/4W
	R889	06S70072F89	9.1 ohm 1/4W
	R890	06S70072F89	9.1 ohm 1/4W
	R891	06S64995F77	10K ohm
	R892	06S64995F77	10K ohm
	R893	06S70072F61	2.2K ohm 1/4W
	R894	06S64995F77	10K ohm
	R895	06S70072F45	470 ohm 1/4W
○	R896	06S64995F55	1.2K ohm
●	R896	06S64995F55	1.2K ohm
△	R896	06S64995F55	1.2K ohm
	R897	06S70072F89	9.1 ohm 1/4W
	R899	06S70072F59	1.8K ohm 1/4W

Symbol No.	Part No.	Description
	VR201	18T15356W13	Variable, 10K ohm
	VR202	18T15356W13	Variable, 10K ohm

Front P.C.Board

IC's

	IC401	51T85152W01	LC75883W
	IC402	51T55639W01	RS-31

Transistors

○	Q401	48T73888F12	CP., FMC2
●	Q401	48T73888F12	CP., FMC2
△	Q401	48T73888F12	CP., FMC2
○	Q402	48T63788F04	CP., 2SD1328
●	Q402	48T63788F04	CP., 2SD1328
△	Q402	48T63788F04	CP., 2SD1328
○	Q403	48T63788F04	CP., 2SD1328
●	Q403	48T63788F04	CP., 2SD1328
△	Q403	48T63788F04	CP., 2SD1328
○	Q404	48T63788F04	CP., 2SD1328
●	Q404	48T63788F04	CP., 2SD1328
△	Q404	48T63788F04	CP., 2SD1328
○	Q405	48T63788F04	CP., 2SD1328
●	Q405	48T63788F04	CP., 2SD1328
△	Q405	48T63788F04	CP., 2SD1328
○	Q406	48T63788F04	CP., 2SD1328
●	Q406	48T63788F04	CP., 2SD1328
△	Q406	48T63788F04	CP., 2SD1328
○	Q407	48T63788F04	CP., 2SD1328
●	Q407	48T63788F04	CP., 2SD1328
△	Q407	48T63788F04	CP., 2SD1328
	Q408	48T62967F03	CP., DTC124K
	Q409	48T62967F03	CP., DTC124K

Diodes

	D401	48T64134F01	CP., DA204K
	D402	48T64134F01	CP., DA204K
	D403	48T64134F01	CP., DA204K
	D404	48T64134F01	CP., DA204K
	D405	48T64134F01	CP., DA204K
	D406	48T81063F01	CP., MA159

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

Symbol No.	Part No.	Description
	D407	48T81063F01	CP., MA159
	D408	48T63462F01	CP., DAN202K
○	D409	48T64134F01	CP., DA204K
●	D409	48T64134F01	CP., DA204K
△	D409	48T64134F01	CP., DA204K
	ZD401	48T84735F07	Zener, MA3056

LED's

	LD401	48T65477W05	CP., SLM-010DTT87 (ORG)
○	LD402	48T65477W05	CP., SLM-010DTT87 (ORG)
●	LD402	48T65477W05	CP., SLM-010DTT87 (ORG)
△	LD402	48T65477W05	CP., SLM-010DTT87 (ORG)
○	LD403	48T65477W05	CP., SLM-010DTT87 (ORG)
●	LD403	48T65477W05	CP., SLM-010DTT87 (ORG)
△	LD403	48T65477W05	CP., SLM-010DTT87 (ORG)
	LD404	48T65477W02	CP., SLM-010LTT87 (RED)
	LD405	48T65477W02	CP., SLM-010LTT87 (RED)
○	LD406	48T65477W05	CP., SLM-010DTT87 (ORG)
●	LD406	48T65477W05	CP., SLM-010DTT87 (ORG)
△	LD406	48T65477W05	CP., SLM-010DTT87 (ORG)
○	LD407	48T65477W05	CP., SLM-010DTT87 (ORG)
●	LD407	48T65477W05	CP., SLM-010DTT87 (ORG)
△	LD407	48T65477W05	CP., SLM-010DTT87 (ORG)
○	LD408	48T65477W05	CP., SLM-010DTT87 (ORG)
●	LD408	48T65477W05	CP., SLM-010DTT87 (ORG)
△	LD408	48T65477W05	CP., SLM-010DTT87 (ORG)

Switches

	S401	40T55656W03	Tact, CP. SKQMAJ (INTLZ/PWR)
	S403	40T75234W01	Tact, CP. SKQNAC (SOURCE/A.S.U.)
	S404	40T75234W01	Tact, CP. SKQNAC (EJECT)
	S405	40T55656W03	Tact, CP. SKQMAJ (REW/DN)
	S406	40T55656W03	Tact, CP. SKQMAJ (FF/UP)
	S407	40T75234W01	Tact, CP. SKQNAC (TUNE/A.MEMO)
	S408	40T55656W03	Tact, CP. SKQMAJ (BAND/PROG)
	S409	40T75234W01	Tact, CP. SKQNAC (TITLE)
	S410	40T75234W01	Tact, CP. SKQNAC (T.INFO)
○	S411	40T55656W03	Tact, CP. SKQMAJ (RDS/1/DOLBY • B/C)
●	S411	40T55656W03	Tact, CP. SKQMAJ (RDS/1/DOLBY • B/C)
△	S411	40T55656W03	Tact, CP. SKQMAJ (RDS/1/DOLBY • B/C)
□	S411	40T55656W03	Tact, CP. SKQMAJ (RDS/1/DOLBY)
	S412	40T55656W03	Tact, CP. SKQMAJ (PTY/2/P.S. DN)
	S413	40T55656W03	Tact, CP. SKQMAJ (P.PTY/3/P.S. UP)
	S414	40T55656W03	Tact, CP. SKQMAJ (M.I.X./4/B.SKIP)
	S415	40T55656W03	Tact, CP. SKQMAJ (RPT/5)
	S416	40T55656W03	Tact, CP. SKQMAJ (SCAN/6)
	S417	40T55656W03	Tact, CP. SKQMAJ (F/DEMO)

Lamps

○	PL401	65T75522W02	CP., 9V-85mA
●	PL401	65T75522W02	CP., 9V-85mA
△	PL401	65T75522W02	CP., 9V-85mA
○	PL402	65T75522W02	CP., 9V-85mA
●	PL402	65T75522W02	CP., 9V-85mA
△	PL402	65T75522W02	CP., 9V-85mA
○	PL403	65T75231W06	9V-85mA
●	PL403	65T75231W06	9V-85mA
△	PL403	65T75231W06	9V-85mA
□	PL403	65T75231W01	9V-85mA
○	PL404	65T75231W06	9V-85mA
●	PL404	65T75231W06	9V-85mA
△	PL404	65T75231W06	9V-85mA
□	PL404	65T75231W01	9V-85mA
	PL411	65T75233W01	CP., 6V-80mA
	PL412	65T75233W01	CP., 6V-80mA
○	PL413	65T75233W02	CP., 6V-80mA
●	PL413	65T75233W02	CP., 6V-80mA
△	PL413	65T75233W02	CP., 6V-80mA
○	PL414	65T75233W02	CP., 6V-80mA
●	PL414	65T75233W02	CP., 6V-80mA
△	PL414	65T75233W02	CP., 6V-80mA
○	PL415	65T75231W02	9V-85mA
●	PL415	65T75231W02	9V-85mA
△	PL415	65T75231W02	9V-85mA
	PL417	65T75232W01	CP., 6V-80mA
	PL418	65T75233W01	CP., 6V-80mA
	PL419	65T75233W01	CP., 6V-80mA

Capacitors

	C401	08S82122F59	CP., 820pF
	E401	23T25191W39	CP. ELY., 6.8μF / 6.3V
	C402	08T15399W03	CP., 0.047μF

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

Symbol No.	Part No.	Description
	Resistors	(All resistors are chip 1/4W±5% unless otherwise noted.)
	R402	06S64995F77	10K ohm 1/10W
	R403	06S64995F77	10K ohm 1/10W
	R404	06S64995F69	4.7K ohm 1/10W
	R405	06S64995F77	10K ohm 1/10W
	R406	06S64995F53	1K ohm 1/10W
	R407	06S64995F53	1K ohm 1/10W
	R410	06S64995F53	1K ohm 1/10W
	R411	06S64995F53	1K ohm 1/10W
	R412	06S64995F53	1K ohm 1/10W
	R413	06S64995F53	1K ohm 1/10W
	R414	06S64995F53	1K ohm 1/10W
	R415	06S64995F69	4.7K ohm 1/10W
	R416	06S64995F97	68K ohm 1/10W
○	R422	06S64995F61	2.2K ohm 1/10W
●	R422	06S64995F61	2.2K ohm 1/10W
△	R422	06S64995F61	2.2K ohm 1/10W
○	R423	06S64995F61	2.2K ohm 1/10W
●	R423	06S64995F61	2.2K ohm 1/10W
△	R423	06S64995F61	2.2K ohm 1/10W
○	R424	06S64995F61	2.2K ohm 1/10W
●	R424	06S64995F61	2.2K ohm 1/10W
△	R424	06S64995F61	2.2K ohm 1/10W
○	R425	06S64995F61	2.2K ohm 1/10W
●	R425	06S64995F61	2.2K ohm 1/10W
△	R425	06S64995F61	2.2K ohm 1/10W
○	R426	06S64995F61	2.2K ohm 1/10W
●	R426	06S64995F61	2.2K ohm 1/10W
△	R426	06S64995F61	2.2K ohm 1/10W
○	R427	06S64995F61	2.2K ohm 1/10W
●	R427	06S64995F61	2.2K ohm 1/10W
△	R427	06S64995F61	2.2K ohm 1/10W
○	R428	06S64995F93	47K ohm 1/10W
●	R428	06S64995F93	47K ohm 1/10W
△	R428	06S64995F93	47K ohm 1/10W
	R429	06S64995F53	1K ohm 1/10W
	R430	06S64995F53	1K ohm 1/10W
○	R451	06S70072F09	15 ohm
●	R451	06S70072F09	15 ohm
△	R451	06S70072F09	15 ohm
○	R452	06S70072F09	15 ohm
●	R452	06S70072F09	15 ohm
△	R452	06S70072F09	15 ohm
	R453	06S70072F09	15 ohm
	R454	06S70072F09	15 ohm
	R455	06S70072F41	330 ohm

Symbol No.	Part No.	Description
	R456	06S70072F43	390 ohm
○	R457	06S70072F41	330 ohm
●	R457	06S70072F41	330 ohm
△	R457	06S70072F41	330 ohm
○	R458	06S70072F39	270 ohm
●	R458	06S70072F39	270 ohm
△	R458	06S70072F39	270 ohm
	R459	06S70072F13	22 ohm
	R460	06S70072F13	22 ohm
○	R461	06S70072F13	22 ohm
●	R461	06S70072F13	22 ohm
△	R461	06S70072F13	22 ohm
○	R462	06S70072F15	27 ohm
●	R462	06S70072F15	27 ohm
△	R462	06S70072F15	27 ohm
○	R463	06S70072F16	30 ohm
●	R463	06S70072F16	30 ohm
△	R463	06S70072F16	30 ohm
○	R464	06S70072F16	30 ohm
●	R464	06S70072F16	30 ohm
△	R464	06S70072F16	30 ohm
	R465	06S70072F16	30 ohm
	R466	06S70072F16	30 ohm
	R467	06S70072F15	27 ohm
	R468	06S70072F15	27 ohm
	R469	06S70072F14	24 ohm
	R470	06S70072F14	24 ohm
	R471	06S70072F13	22 ohm
	R472	06S70072F41	330 ohm
	R473	06S70072F67	3.9K ohm
○	R474	06S70072F37	220 ohm
●	R474	06S70072F37	220 ohm
△	R474	06S70072F37	220 ohm
○	R475	06S70072F39	270 ohm
●	R475	06S70072F39	270 ohm
△	R475	06S70072F39	270 ohm
○	R476	06S70072F16	30 ohm
●	R476	06S70072F16	30 ohm
△	R476	06S70072F16	30 ohm
○	R477	06S70072F16	30 ohm
●	R477	06S70072F16	30 ohm
△	R477	06S70072F16	30 ohm
○	R478	06S70072F17	33 ohm
●	R478	06S70072F17	33 ohm
△	R478	06S70072F17	33 ohm
	R479	06S70072F39	270 ohm
	R481	06S64995F46	510 ohm 1/10W

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

Symbol No.	Part No.	Description
○	R482	06S64995F53	1K ohm 1/10W
●	R482	06S64995F53	1K ohm 1/10W
△	R482	06S64995F53	1K ohm 1/10W

GR Control P.C.Board (●)

IC's

	IC3102	51T75010W01	BA3703F
	IC3501	51T75628W01	BA6285FP

Transistors

	Q3501	48T84366F05	2SB1243
	Q3502	48T62967F06	CP., DTC114YK
	Q3503	48T62967F06	CP., DTC114YK
	Q3504	48T83835F03	2SD1859
	Q3505	48T62967F06	CP., DTC114YK

Diodes

	D3501	48T81063F01	CP., MA159
	D3502	48T81063F01	CP., MA159
	ZD3501	48T83128F11	Zener, HZS7A2L

Capacitors

	E3107	23S75372W15	ELY., 1μF / 50V
	E3108	23S75372W04	ELY., 10μF / 16V
	C3111	08S65128F35	CP., 100pF
	C3112	08S35374W01	CP., 0.1μF
	C3113	08S82122F59	CP., 820pF
	C3501	08S65128F76	CP., 0.1μF
	E3501	23S75372W08	ELY., 100μF / 16V

Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)

	R3114	06S64995F85	22K ohm
	R3115	06S64995F85	22K ohm
	R3116	06S64995F85	22K ohm
	R3117	06S64996F01	91K ohm
	R3118	06S64995F95	56K ohm
	R3119	06S64995F32	130 ohm
	R3507	06S70072F41	330 ohm 1/4W
	R3508	06S70072F41	330 ohm 1/4W
	R3509	06S64995F77	10K ohm
	R3510	06S70072F60	2K ohm 1/4W
	R3511	06S70072F60	2K ohm 1/4W
	R3512	06S53331F01	91K ohm 1/8W
	R3513	06S53331F01	91K ohm 1/8W
	R3514	06S70072F53	1K ohm 1/4W
	R3515	06S81094F05	M.F., 3.3 ohm 1/2W

GR Control P.C.Board (○△□)

IC's

IC1101	51T64606F02	TA7705F
IC1102	51T75010W01	BA3703F
IC1501	51T75628W01	BA6285FP

Transistors

Q1501	48T84366F05	2SB1243
Q1502	48T62967F06	CP., DTC114YK
Q1503	48T62967F06	CP., DTC114YK
Q1504	48T83835F03	2SD1859

Diodes

D1101	48T81063F01	CP., MA159
D1501	48T81063F01	CP., MA159
D1502	48T81063F01	CP., MA159
ZD1501	48T83128F11	Zener, HZS7A2L

Capacitors

E1101	23S75372W02	ELY., 100μF / 10V
E1102	23S75372W04	ELY., 10μF / 16V
E1103	23S75372W02	ELY., 100μF / 10V
E1104	23S75372W07	ELY., 47μF / 16V
C1105	08S72783F31	CP., 470pF
E1105	23S75372W09	ELY., 4.7μF / 35V
C1106	08S72783F31	CP., 470pF
E1106	23S75372W09	ELY., 4.7μF / 35V
C1107	08S72783F31	CP., 470pF
E1107	23S75372W15	ELY., 1μF / 50V
C1108	08S72783F31	CP., 470pF
E1108	23S75372W04	ELY., 10μF / 16V
C1109	08S53332F48	CP., 0.012μF
C1110	08S53332F48	CP., 0.012μF
C1111	08S65128F35	CP., 100pF
C1112	08S35374W01	CP., 0.1μF

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

Symbol No.	Part No.	Description
C1113	08S82122F59	CP., 820pF
C1501	08S65128F76	CP., 0.1μF
E1501	23S75372W08	ELY., 100μF / 16V
Resistors		(All resistors are chip 1/10W±5% unless otherwise noted.)
R1101	06S53330F32	130 ohm 1/8W
R1102	06S64996F15	360K ohm
R1103	06S64995F80	13K ohm
R1104	06S53330F80	13K ohm 1/8W
R1105	06S53330F32	130 ohm 1/8W
R1106	06S64995F80	13K ohm
R1107	06S64995F80	13K ohm
R1108	06S64996F15	360K ohm
R1109	06S53330F29	100 ohm 1/8W
R1110	06S53330F65	3.3K ohm 1/8W
R1111	06S53330F65	3.3K ohm 1/8W
R1112	06S53330F85	22K ohm 1/8W
R1113	06S53330F85	22K ohm 1/8W
R1116	06S64995F85	22K ohm
R1117	06S64996F01	91K ohm
R1118	06S64995F95	56K ohm
R1119	06S64995F32	130 ohm
R1507	06S70072F41	330 ohm 1/4W
R1508	06S70072F41	330 ohm 1/4W
R1509	06S64995F77	10K ohm
R1510	06S70072F60	2K ohm 1/4W
R1511	06S70072F60	2K ohm 1/4W
R1512	06S53331F01	91K ohm 1/8W
R1513	06S53331F01	91K ohm 1/8W
R1514	06S70072F53	1K ohm 1/4W
R1515	06S81094F09	M.F., 4.7 ohm 1/2W
GR Audio P.C.Board (●)		
IC		
IC3101	51T64606F02	TA7705F
Diode		
D3101	48T81063F01	CP., MA159

Symbol No.	Part No.	Description
Capacitors		
C3101	08T35389W09	PF., 470pF
E3101	23S75372W02	ELY., 100μF / 10V
C3102	08T35389W09	PF., 470pF
E3102	23S75372W04	ELY., 10μF / 16V
C3103	08T35389W09	PF., 470pF
E3103	23S75372W02	ELY., 100μF / 10V
C3104	08T35389W09	PF., 470pF
E3104	23S75372W07	ELY., 47μF / 16V
E3105	23S75372W09	ELY., 4.7μF / 35V
E3106	23S75372W09	ELY., 4.7μF / 35V
C3109	08T35122W02	PF., 0.012μF
C3110	08T35122W02	PF., 0.012μF
Resistors		(All resistors are chip1/8W±5% unless otherwise noted.)
R3101	06S53330F32	130 ohm
R3102	06S64996F12	270K ohm 1/10W
R3103	06S64995F79	12K ohm 1/10W
R3104	06S64995F80	13K ohm 1/10W
R3105	06S53330F32	130 ohm
R3106	06S64995F80	13K ohm 1/10W
R3107	06S64995F79	12K ohm 1/10W
R3108	06S64996F12	270K ohm 1/10W
R3109	06S53330F29	100 ohm
R3110	06S53330F65	3.3K ohm
R3111	06S53330F65	3.3K ohm
R3112	06S53330F85	22K ohm
R3113	06S53330F85	22K ohm
Miscellaneous		
CB501	09T75038W16	16P Connector
CH401	09T75039W16	16P Connector
ET001	09T55211W01	Antenna Receptacle
○ ET502	01T85236W01	Assy., RCA Connector (REAR OUT/FRONT OUT/SUB-W/Audio Interrupt In/Remote Turn-On)
● ET502	01T85236W01	Assy., RCA Connector (REAR OUT/FRONT OUT/SUB-W/Audio Interrupt In/Remote Turn-On)
△ ET502	01T85236W02	Assy., RCA Connector (REAR OUT/F-OUT/NFP/Remote Turn-On)

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

Symbol No.	Part No.	Description
□ ET502	01T85236W03	Assy., RCA Connector (REAR OUT/Remote Turn-On)
○ ET504	01T75292W04	Assy., ISO Connector (15A)
● ET504	01T75292W03	Assy., ISO Connector (7.5A)
△ ET504	01T75292W04	Assy., ISO Connector (15A)
□ ET504	01T75292W04	Assy., ISO Connector (15A)
○ HD1101	88T75612W02	Head
● HD1101	88T85509W01	Head
△ HD1101	88T75612W02	Head
□ HD1101	88T75612W02	Head
JK503	09T55071W11	Ai-NET Connector
○ LCD401	65T85084W01	LCD Display
● LCD401	65T85254W01	LCD Display
△ LCD401	65T85084W02	LCD Display
□ LCD401	65T85084W03	LCD Display
○ M1501	01V74500W16	Assy., Main Motor (13.2V-55mA)
● M1501	01V84200W63	Assy., Main Motor (6V-90mA)
△ M1501	01V74500W16	Assy., Main Motor (13.2V-55mA)
□ M1501	01V74500W16	Assy., Main Motor (13.2V-55mA)
M1502	01V74500W23	Assy., Sub Motor (7V-370mA)
PT1501	51T63433F03	Sensor, Photo ON2170-R2
PT1502	51T63433F03	Sensor, Photo ON2170-R2
S1501	40T15222W01	Switch, Detector (PACK IN)
S1502	40T15382W02	Switch, Detector (PAUSE)
S1503	40T15382W02	Switch, Detector (MODE)
S1504	40T15382W02	Switch, Detector (METAL)
VR402, S402	40T45670W05	Rotary Encoder Volume (AUDIO CONTROL/MODE • LOUD)

Symbol No.	Part No.	Description

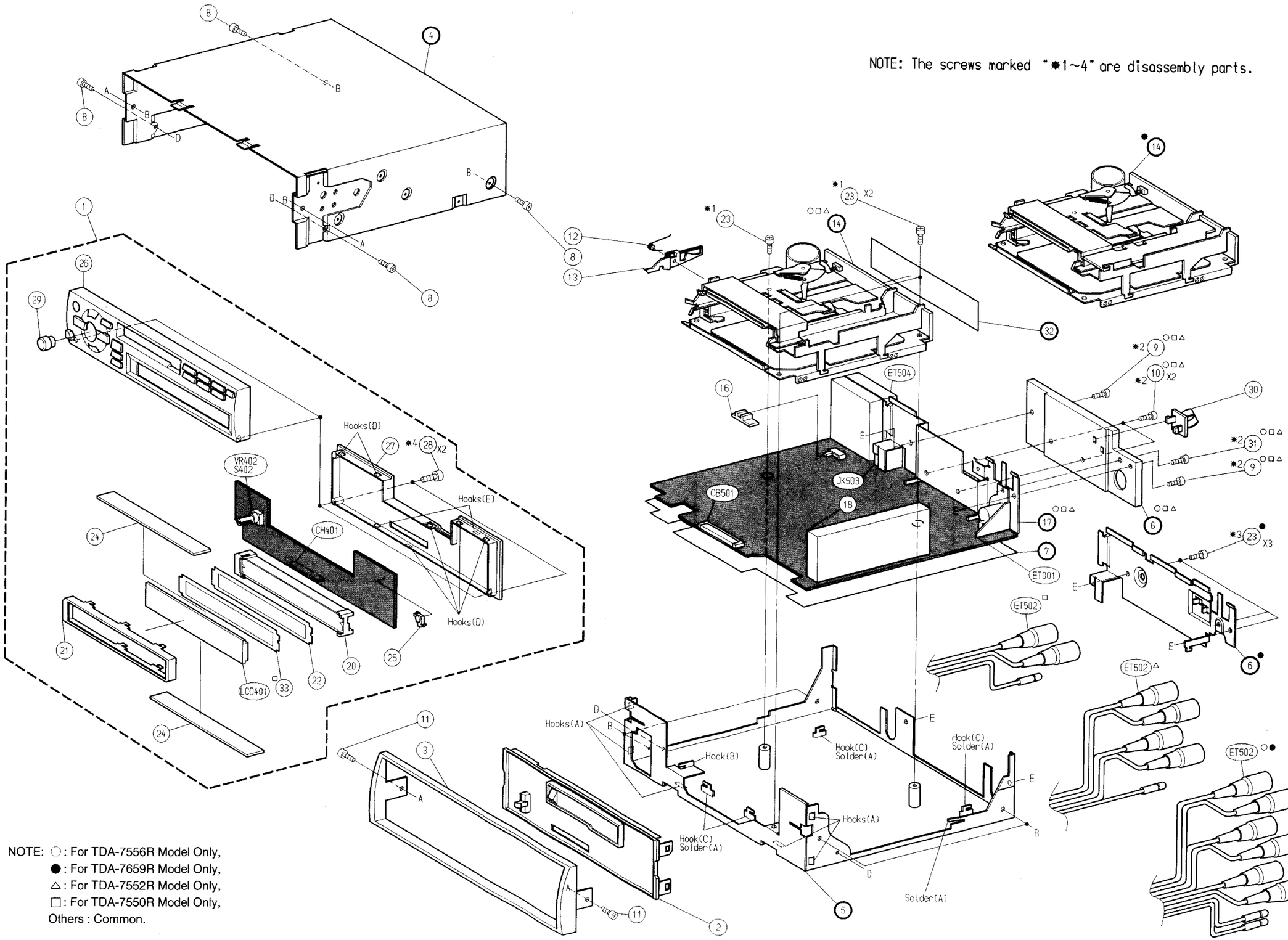
NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

MEMO

TDA-7556R/7659R/
TDA-7552R/7550R

Exploded View (Cabinet)

NOTE: The screws marked "✱1~4" are disassembly parts.



Cabinet Assembly Parts List

NOTE:No parts number on parts list are not supplied.

Symbol No.		Index	Part No.	Description
○	1	2-A	01V83100W28	Assy., Nose Unit
●	1	2-A	01V83100W66	Assy., Nose Unit
△	1	2-A	01V83100W57	Assy., Nose Unit
□	1	2-A	01V83100W61	Assy., Nose Unit
○	2	5-E	13C70374W04	Assy., Front Escutcheon
●	2	5-E	13C70374W05	Assy., Front Escutcheon
△	2	5-E	13C70374W04	Assy., Front Escutcheon
□	2	5-E	13C70374W04	Assy., Front Escutcheon
	3	5-C	33C00544K01	Assy., Face Plate
	or	5-C	33C81778W01	Assy., Face Plate
	8		03S38013W24	Screw, Pan (M2.6X6)
○	9	3-G	03S44205G33	Screw, Pan (M2.6X8)
△	9	3-G	03S44205G33	Screw, Pan (M2.6X8)
□	9	3-G	03S44205G33	Screw, Pan (M2.6X8)
○	10	3-G	03S38013W02	Screw, Pan (M2.6X14)
△	10	3-G	03S38013W02	Screw, Pan (M2.6X14)
□	10	3-G	03S38013W02	Screw, Pan (M2.6X14)
	11		03S38013W13	Screw, Bind (M2.6X6)
	12	2-D	41A20424W01	Spring, Door
	13	2-D	45C61079W01	Lever, Door
	16	3-E	36A70327W01	Knob, Slide
	18	3-E	77B60578W01	FM/MW/LW Tuner Unit, MB4R3010 (FE001)
	20	4-C	15C00540K01	Assy., Case, LCD
	21	4-A	15B00536K01	Cover, LCD
○	22	4-C	26A80519W03	Reflector, Sheet
●	22	4-C	26A80519W03	Reflector, Sheet
△	22	4-C	26A80519W03	Reflector, Sheet
□	22	4-C	26A80519W01	Reflector, Sheet
○	23		03S44205G29	Screw, Pan (M2.6X6)
●	23		03S44205G07	Screw, Pan (M2.6X5)
△	23		03S44205G29	Screw, Pan (M2.6X6)
□	23		03S44205G29	Screw, Pan (M2.6X6)
	24		75T85247W01	Rubber, Electric
	25	4-C	15A80548W01	Cover, LED
○	26	2-A	13D80502W01	Assy., Nosepiece
●	26	2-A	13D80502W09	Assy., Nosepiece
△	26	2-A	13D80502W07	Assy., Nosepiece
□	26	2-A	13D80502W08	Assy., Nosepiece
	27	3-C	13D80516W01	Nose, Bottom
	28	3-C	03S71677F56	Screw, Pan (M1.7X12)
	29	2-A	36B80547W01	Knob, Rotary (VOLUME)
	30	3-G	15A70387W01	Holder, Antenna
○	31	3-G	03S44205G61	Screw, Pan (M2.6X10)
△	31	3-G	03S44205G61	Screw, Pan (M2.6X10)
□	31	3-G	03S44205G61	Screw, Pan (M2.6X10)
□	33	4-B	26A80519W02	Reflector, Sheet

NOTE : ○ :For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ :For TDA-7550R Model Only, Others : Common.

Disassembly Instructions

1. Removal of Nose Unit

(1) Refer to the Owner's Manual (Part No. 68P81402W53).

2. Removal of Front Escutcheon

(1) After removal of Face Plate and Top Cover, remove the Hooks (A). .....Hooks (A) (4-D, 5-E)

3. Removal of Cassette Deck

(1) After removal of Front Escutcheon, remove three screws No.23. .....Screws No. 23 (※1) (2-E)
(2) Remove the Hook (B). .....Hook (B) (5-E)
(3) Disconnect the connector from Main P.C. Board.

4. Removal of Main P.C. Board (TDA-7556R/7552R/7550R Model Only)

(1) After removal of Cassette Deck, remove five screws No. 9, 10, 31, ...Screws No. 9, 10, 31 (※2) (3-G)
and remove the Heat Sink.
(2) Remove the Solder (A) and Hooks (C). .....Solder (A) (5-E, 5-F)
Hooks (C) (5-E, 5-F)
(3) Main P.C. Board with Bracket IC can be removed completely.

5. Removal of Main P.C. Board (TDA-7659R Model Only)

(1) After removal of Cassette Deck, remove three screws No. 23. .....Screws No. 23 (※3) (3-G)
(2) Remove the Solder (A) and Hooks (C). .....Solder (A) (5-E, 5-F)
Hooks (C) (5-E, 5-F)
(3) Main P.C. Board with Bracket Rear can be removed completely.

6. Removal of Front P.C. Board

(1) After removal of Nose Unit, remove the Rotary Knob and two screws No. 28. .....Screws No. 28 (※4) (3-C)
(2) Remove the Hooks (D), and remove the Nosepiece. .....Hooks (D) (3-C, 4-C)
(3) Remove the Hooks (E). .....Hooks (E) (3-C)

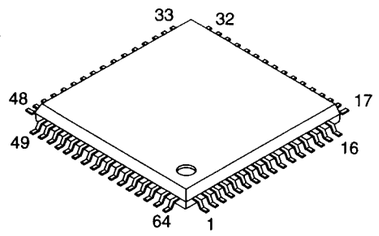
NOTE: For the screws No., Hooks, and Solder, refer to the Exploded View (Cabinet).

TDA-7556R/7659R/
TDA-7552R/7550R

Semi - Conductor Lead Identifications

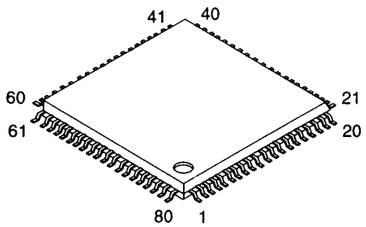
NOTE : For the parts not mentioned, refer to the Schematic Diagram.

85151W08 : IC501



PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O
1	○● NFP EV DATA	O	20	PACK IN	I	43	GND	—
	△□ NC	—	21	REV. DET	I	44	NC	—
2	NOSE PWR	O	22	MODE SW	I	45	GND	—
3	○●△ BUZZER	O	23	FOR DET	I	46	GND	—
	□ NC	—	24	GND	—	47	Ai-NET IN/OUT	I
4	DTS START	O	25	PAUSE SW	I	48	○● $\overline{\text{IN INT}}$	I
5	$\overline{\text{DTS MUTE}}$	I	26	MUTE	O		△□ PULL-DOWN	—
6	DTS CE	O	27	NFP-1	O	49	MODEL	I
7	ALARM	O	28	NFP-2	O	50	ENCODER 1	I
8	○● NFP EV CE	O	29	EV-DATA	I/O	51	ENCODER 2	I
	△□ NC	—	30	EV-CLK	O	52	GND	—
9	GND	—	31	PWR IC	O	53	GND	—
10	$\overline{\text{DOLBY B}}$	O	32	PWR ON	O	54	NOSE-DET	I
11	○●△ $\overline{\text{DOLBY C}}$	O	33	NC	—	55	V_{DD}	—
	□ NC	—	34	BUS OUT	O	56	V_{DD}	—
12	L.O. FAST	O	35	$\overline{\text{RESET}}$	I	57	LCD DO	I
13	FOR/$\overline{\text{REV}}$	O	36	REMOCON	I	58	LCD DI	O
14	O. MOTOR	O	37	BUS IN	I	59	LCD CLK	O
15	R-IN	O	38	ACC DET	I	60	LCD CE	O
16	F-IN	O	39	BAT DET	I	61	LCD RST	O
17	MTR FAST	I	40	V_{DD}	—	62	DTS STS	I
18	M.S. DET	I	41	X2	O	63	DTS CMD	O
19	METAL	I	42	X1	I	64	$\overline{\text{DTS CLK}}$	O

85088W01 : IC502



PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O
1	LW	O	21	NC	—	41	NC	—	61	RDS CLK	I
2	LO/$\overline{\text{DX}}$	O	22	NC	—	42	NC	—	62	RDS DATA	I
3	MONO	O	23	NC	—	43	NC	—	63	DTS CE	I
4	AV_{SS}	—	24	NC	—	44	NC	—	64	NC	—
5	$\overline{\text{LPF SW}}$	O	25	NC	—	45	NC	—	65	NC	—
6	IF MUTE	O	26	NC	—	46	NC	—	66	NC	—
7	$AV_{REF}1$	—	27	NC	—	47	NC	—	67	50K REF	O
8	RXD	I	28	NC	—	48	NC	—	68	V_{DD}	—
9	TXD	O	29	NC	—	49	NC	—	69	X2	—
10	SYNC	O	30	NC	—	50	NC	—	70	X1	—
11	PLL CLK	O	31	NC	—	51	NC	—	71	GND	—
12	PLL DATA	O	32	NC	—	52	NC	—	72	NC	—
13	PLL CE	O	33	GND	—	53	NC	—	73	PLL DATA I	I
14	DTS MUTE	O	34	NC	—	54	NC	—	74	AV_{DD}	—
15	DTS START	I	35	NC	—	55	NC	—	75	$AV_{REF}0$	I
16	DTS CMD	I	36	NC	—	56	NC	—	76	S.METER	I
17	DTS STS	O	37	NC	—	57	NC	—	77	A/I	I
18	DTS CLK	I	38	NC	—	58	FM/$\overline{\text{AM}}$	O	78	M.P	I
19	NC	—	39	NC	—	59	AUDIO IN	I	79	ST	I
20	NC	—	40	NC	—	60	RESET	I	80	SD	I

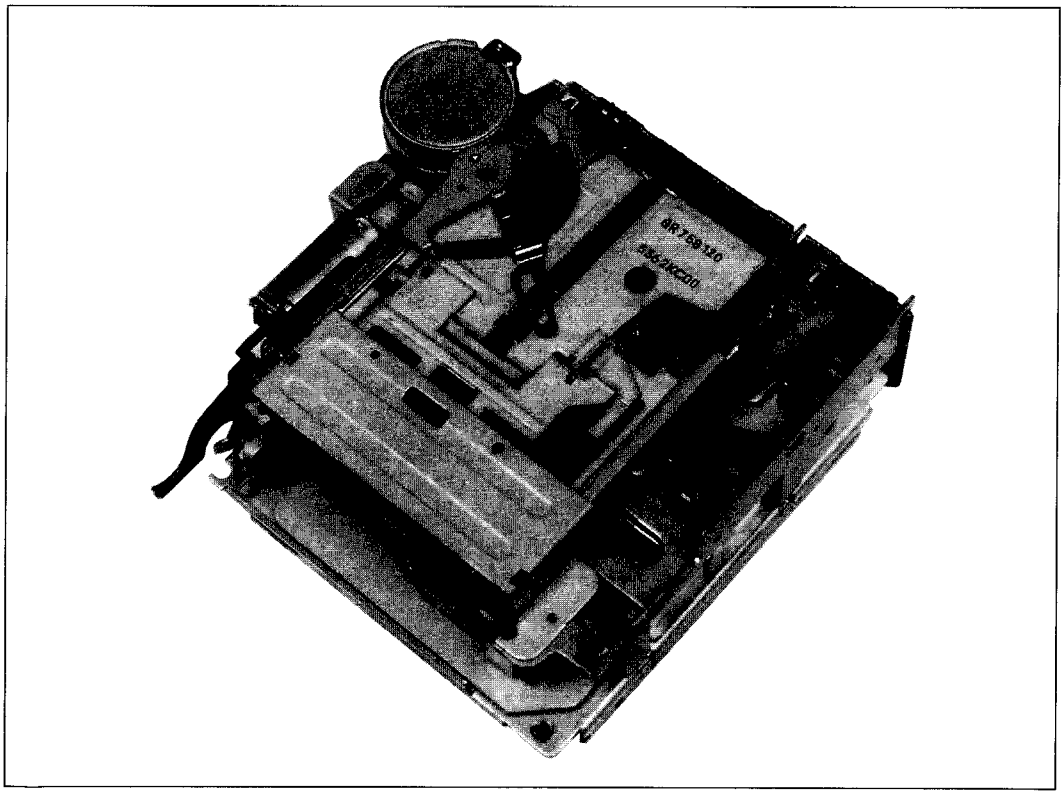
NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only, Others : Common.

MEMO

ALPINE®

SERVICE MANUAL

Cassette Deck Mechanism



GR-S SERIES

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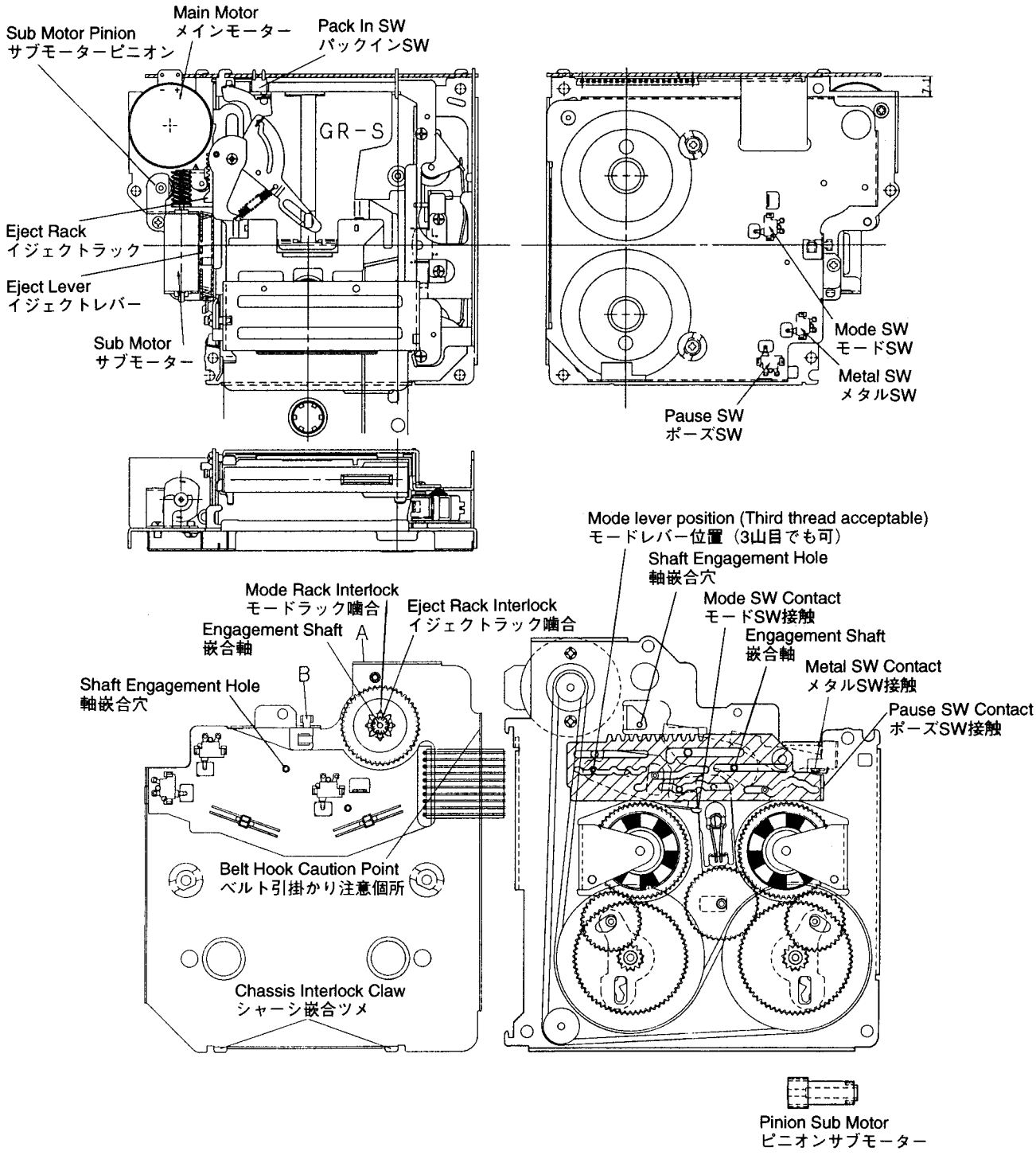
Basic Operation of GR-S Mechanism
GR-Sメカ基本動作



Mode rack engagement should be made so that normal engagement is obtained when an end of section A touches the chassis closely with the pinion sub motor inserted in place and rotated after temporary installation of the bottom cover. In this case, the sub motor wires should be positioned in the normal guide of the section B (should not be jammed). The metal lever should be installed by moving the switch contact section to inside of the mechanism as in GR-H.

モードラックの噛合せはボトムカバー仮装着後PINION SUB MOTORを正規位置に挿入して回転させる。
A部端面がシャーシと密着出来たとき正常な噛合い状態になったことを意味する。
又このときサブモータワイヤがB部の正規ガイド位置にあること。（挟み込みさせないこと。）
メタルレバーはGR-Hと同様にSW接触部をメカ内部に移動させて組み込むこと。

A. Loading

1. Insert a cassette pack.
2. PACK IN SW goes ON→OFF.
3. SUB motor rotates and the power is transferred to SUB MOTOR PINION, EJECT rack, and EJECT lever, and moves to the direction shown by the arrow.
4. After completion of the cassette pack loading, motion start of the mode lever is detected by checking ON→OFF of the PAUSE SW, and rotation of the SUB MOTOR stops once, and then the SUB MOTOR rotates in reverse direction until the PAUSE SW is ON again. After the stop of the SUB MOTOR, the main motor rotates.
5. When the main motor rotates, both reels rotate in the winding direction and eliminate slack of the tape at the PAUSE position. (Loading completion)

A. ローディング

1. カセットパックを挿入する。
2. PACK IN SWがON→OFFになる。
3. SUBモーターが回転してSUB MOTOR PINION、EJECTラック、EJECTレバーと動力が伝達し、矢印方向へ移動する。
4. カセットパック装着完了後、モードレバーが動き始めたことを、PAUSE SWがON→OFFすることで、検知しSUB MOTORの回転を一旦停止させ、再度PAUSE SWがONするまで逆回転させる、SUB MOTOR停止後メインモーターを回転させる。
5. メインモーターの回転により、両リールを巻き取り方向に回転させ、テープのタルミをPAUSE位置でなくする。（ローディング完了）

B. Play

1. Rotation of the main motor stops and the SUB MOTOR rotates, thereby moving the mode lever to the PLAY position.
2. Motion of the mode lever to the PLAY position is detected by checking ON/OFF number of the mode SW and rotating direction of the sub motor.
3. After detection of the mode lever moved to the PLAY position, the SUB MOTOR rotation stops and the main motor rotates, thus entering the PLAY operation.

B. プレイ

1. メインモーターの回転を停止させ、SUB MOTORを回転させて、モードレバーをPLAY位置に移動させる。
2. モードレバーのプレイ位置への移動はモードSWのON/OFF回数とサブモーターの回転方向で検知する。
3. モードレバーがPLAY位置に移動したことを検知したら、SUB MOTORの回転を停止し、メインモーターを回転させてPLAY動作に入る。

C. PROG

1. With the PROG KEY SW ON, the SUB MOTOR rotates, and the mode lever moves to next PLAY position (NORMAL→REVERSE PLAY or REVERSE→NORMAL PLAY).
2. When the mode switch detects the next PLAY position, the SUB MOTOR rotation stops, and operation shifts to the PLAY.

C. PROG

1. PROG KEY SW ONにより、SUB MOTORを回転させ、モードレバーを次のPLAY位置（NORMAL→REVERSE PLAY又は、REVERSE→NORMAL PLAY）に移動させる。
2. モードSWが次のPLAY位置を検知したらSUB MOTORの回転を停止し、PLAYに移行する。

D. FF/REW (QUE/REVIEW)

1. With KEY ON, rotation of the main motor stops and the SUB MOTOR rotates to bring the mode lever to the specified position.
2. When the specified position is detected by counting ON/OFF number of the mode SW, the SUB MOTOR rotation stops, and the main motor rotates to perform tape fast winding operation.
   (According to the stop position of the mode lever, all of head position retreat, playback engagement releasing, pinch roller retreat, and FF gear engagement are kept.)

D. FF/REW (QUE/REVIEW)

1. KEY ONによりメインモーターの回転を停止し、SUB MOTORを回転させモードレバーを所定の位置に移動させる。
2. モードSWのON/OFF回数をカウントし、所定の位置を検知したらSUB MOTORの回転を停止し、メインモーターを回転させ、TAPE早送り動作を行う。
   （モードレバーの停止位置により、ヘッド位置後退、プレイ噛み合い切り離し、ピンチローラー後退、早送り歯車の噛み合いは、全て維持される。）

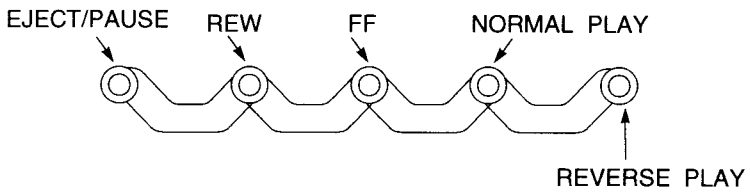
E. EJECT

1. With KEY ON, main motor rotation stops and SUB MOTOR rotates, thereby moving the mode lever to the EJECT/PAUSE position.
2. When the PAUSE SW turns on with the mode lever moved , the SUB MOTOR rotation stops, the main motor rotates to perform take up operations for both the reels.
3. When beginning of the reel slip is detected with tape slack eliminated, the main motor rotation stops and the sub motor rotates to move the EJECT lever in the eject direction.
4. When the PACK IN SW goes from OFF to ON, the SUB MOTOR rotation stops and the EJECT operation completes.

E. EJECT

1. KEY ONにより、メインモーターの回転を停止すると共に、SUB MOTORを回転させ、モードレバーをEJECT/PAUSE位置に移動させる。
2. モードレバーの移動は、PAUSE SWがONした所でSUB MOTORの回転を停止しメインモーターを回転させ両リールの巻き取り動作を行う。
3. テープタルミが無くなり、リールスリップが始まったことを、検知したらメインモーターの回転を停止し、SUB MOTORを回転させてEJECTレバーを排出方向に移動させる。
4. PACK IN SWがOFF→ONに切り換わったらSUB MOTORの回転を停止させEJECT完了となる。

Mode lever position
モードレバー位置



Mechanism operations are determined by positions of the mode lever shown above.
メカの動作は上記モードレバーの位置で決まる。

Operations of MODE SW and PAUSE SW

MODE SW、 PAUSE SWの動作

REV. PLAY

Mechanism operation shift メカ動作の移行		MODE SW	PAUSE SW
Loading	→Play	4	2
	FF		
	REW		
Play	→FF	3	0
	REW	2	0
	PROG	1	0
	EJECT	4	1 (OFF→ON)
FF	→Play	3	0
	REW	1	0
	PROG		
	EJECT	1	1 (OFF→ON)
REW	→Play	2	0
	FF	1	0
	PROG		
	EJECT	2	1 (OFF→ON)

ON→OFF number of above switches
上記SWのON→OFF回数

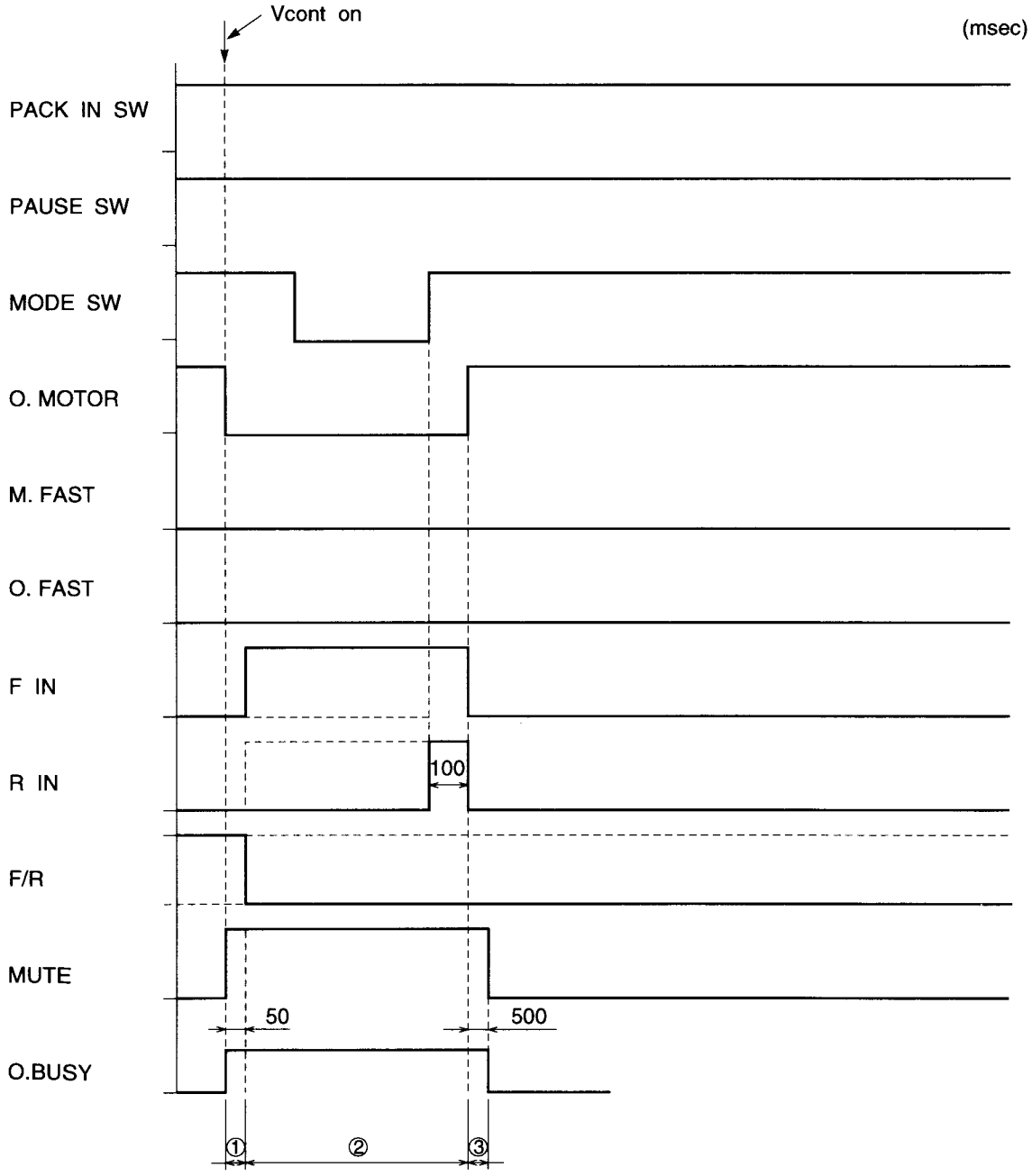
FOR. PLAY

Mechanism operation shift メカ動作の移行		MODE SW	PAUSE SW
Loading	→Play	3	2
	FF		
	REW		
Play	→FF	1	0
	REW	2	0
	PROG	1	0
	EJECT	3	1 (OFF→ON)
FF	→Play	1	0
	REW	1	0
	PROG		
	EJECT	2	1 (OFF→ON)
REW	→Play	2	0
	FF	1	0
	PROG		
	EJECT	1	1 (OFF→ON)

ON→OFF number of above switches
上記SWのON→OFF回数

Mechanism basic operation timing chart
メカニズム基本動作タイミングチャート

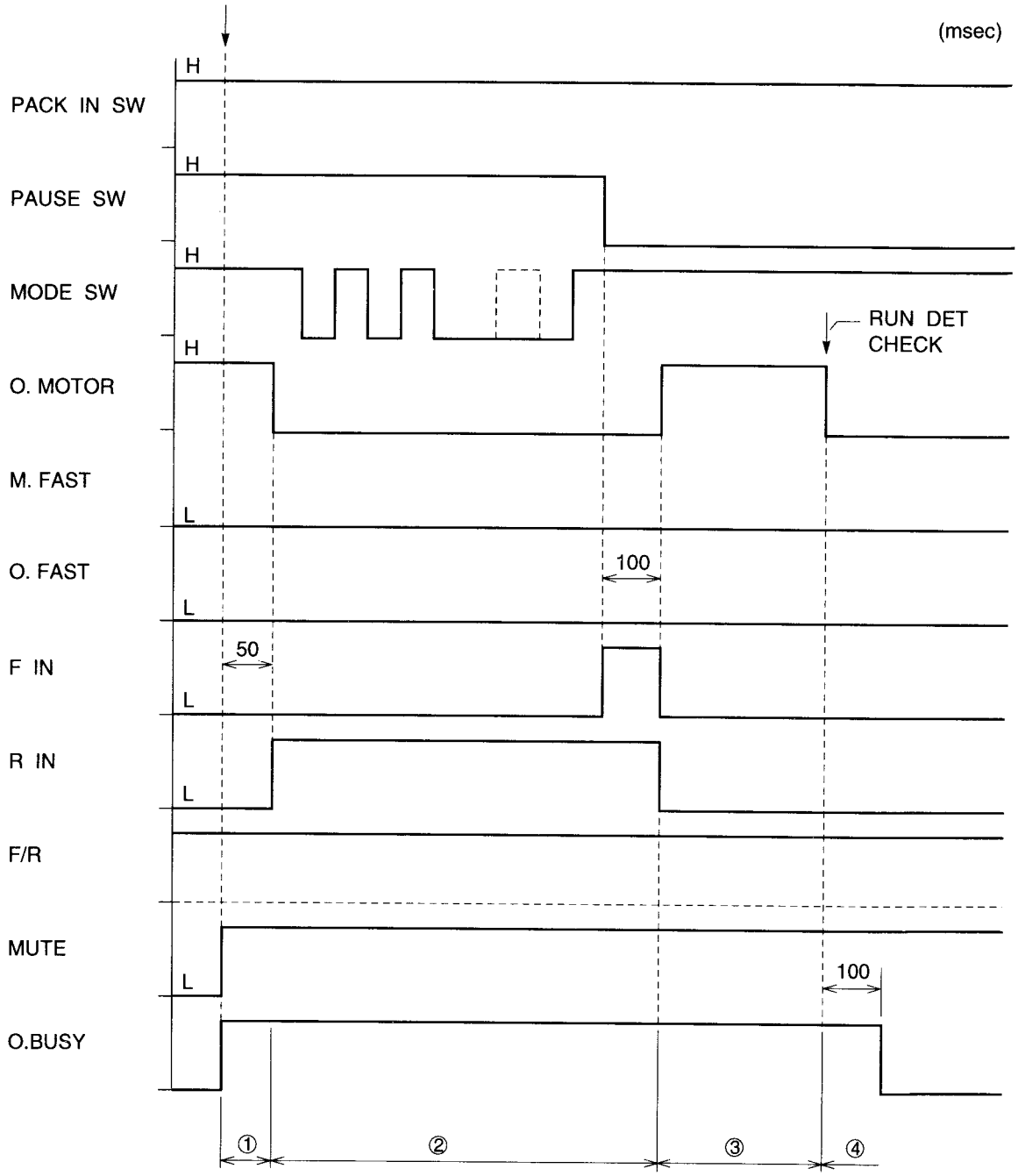
Shift MODE　　PLAY → PLAY (PROG)
移行モード　　PLAY → PLAY (PROG)



① Tape wind stop: Main motor stops.
② Mode lever shift: SUB MOTOR rotates, mode lever moves to a specified position and stops.
③ Mode determination: Muting until operation reaches a stable status.

① TAPE巻取り停止：MAIN MOTORを停止させる。
② MODE LEVER移動：SUB MOTORを回しMODE LEVERを目的の位置まで移動させ停止させる。
③ MODE確定：動作安定までMUTE。

Shift MODE　　PLAY → PAUSE
移行モード　　PLAY → PAUSE

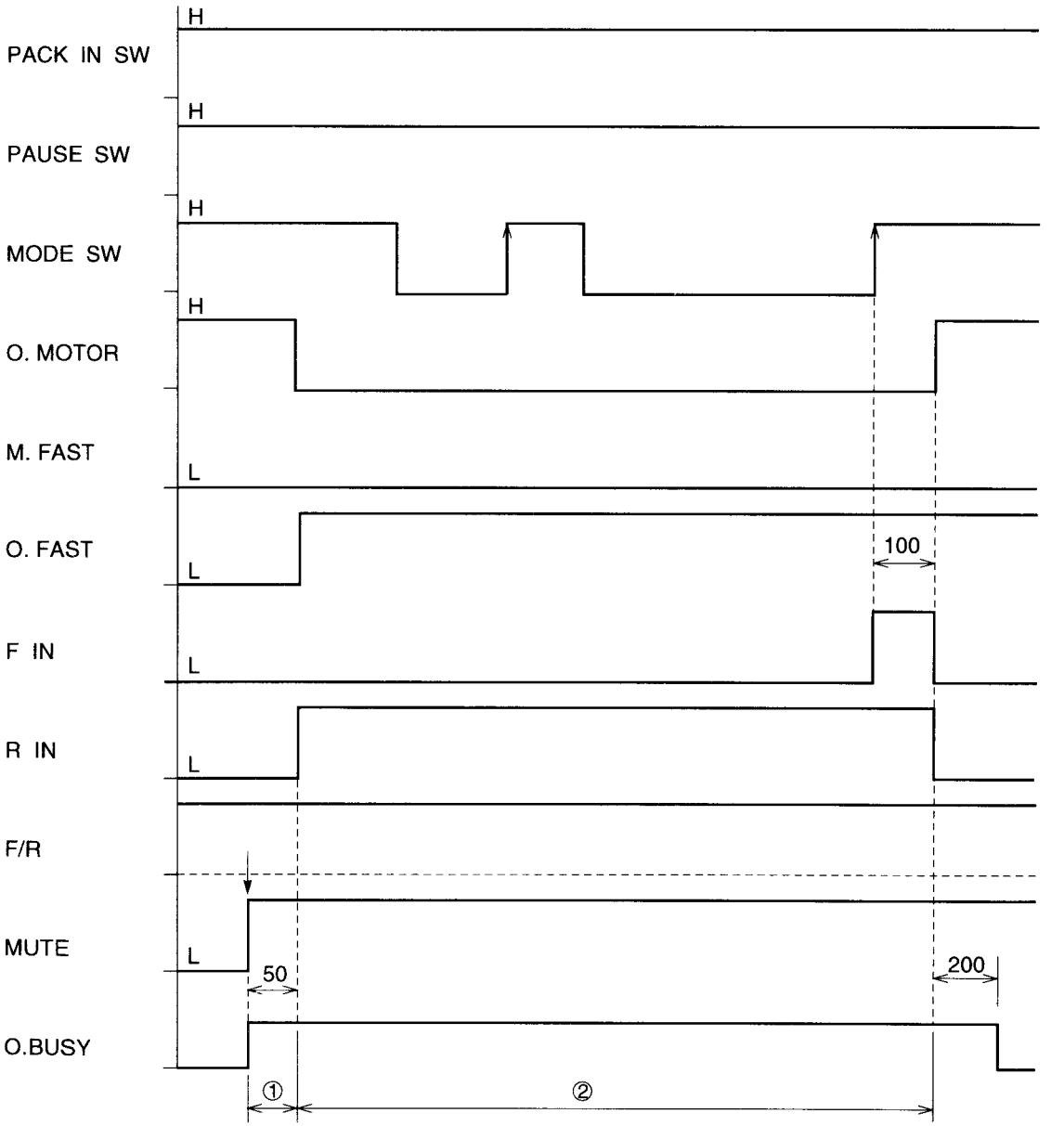


① Tape wind stop: Main motor stops.
② Mode lever shift: Sub motor rotates, mode lever moves to a specified position and stops.
③ Removal of tape slack: Both reel rotate in winding direction and eliminate tape slack.
④ Reel stop: Main motor stops when run det pulse reaches a specified value.

① TAPE巻取り停止：MAIN MOTOR停止
② MODE LEVER移動：SUB MOTORを回し、MODE LEVERを目的の位置まで移動させ停止させる。
③ TAPE弛み取り：両リールを巻取方向へ回転させ、TAPEの弛みを無くす。
④ リール停止：RUNDET PULSが設定値に達したらMAIN MOTORを停止させる。

Shift MODE　　PLAY → REW
移行モード　　PLAY → REW

(msec)

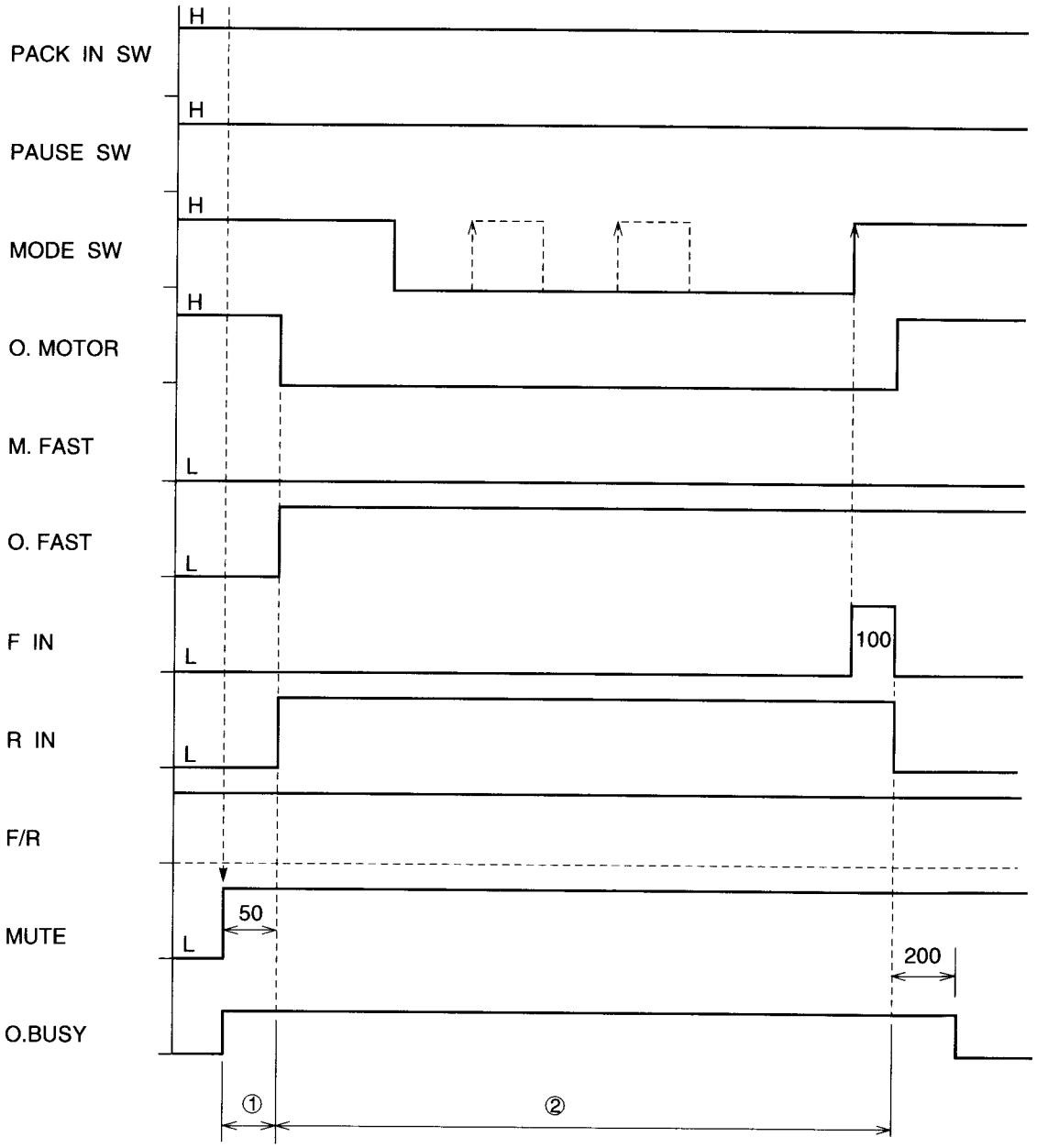


① Tape wind stop: Main motor stops.
② Mode lever shift: Sub motor rotates and mode lever moves to a specified position and stops.

① TAPE巻取り停止：MAIN MOTOR停止
② MODE LEVER移動：SUB MOTORを回しMODE LEVERを目的の位置まで移動させ停止させる。

Shift MODE　　PLAY → FF
移行モード　　PLAY → FF

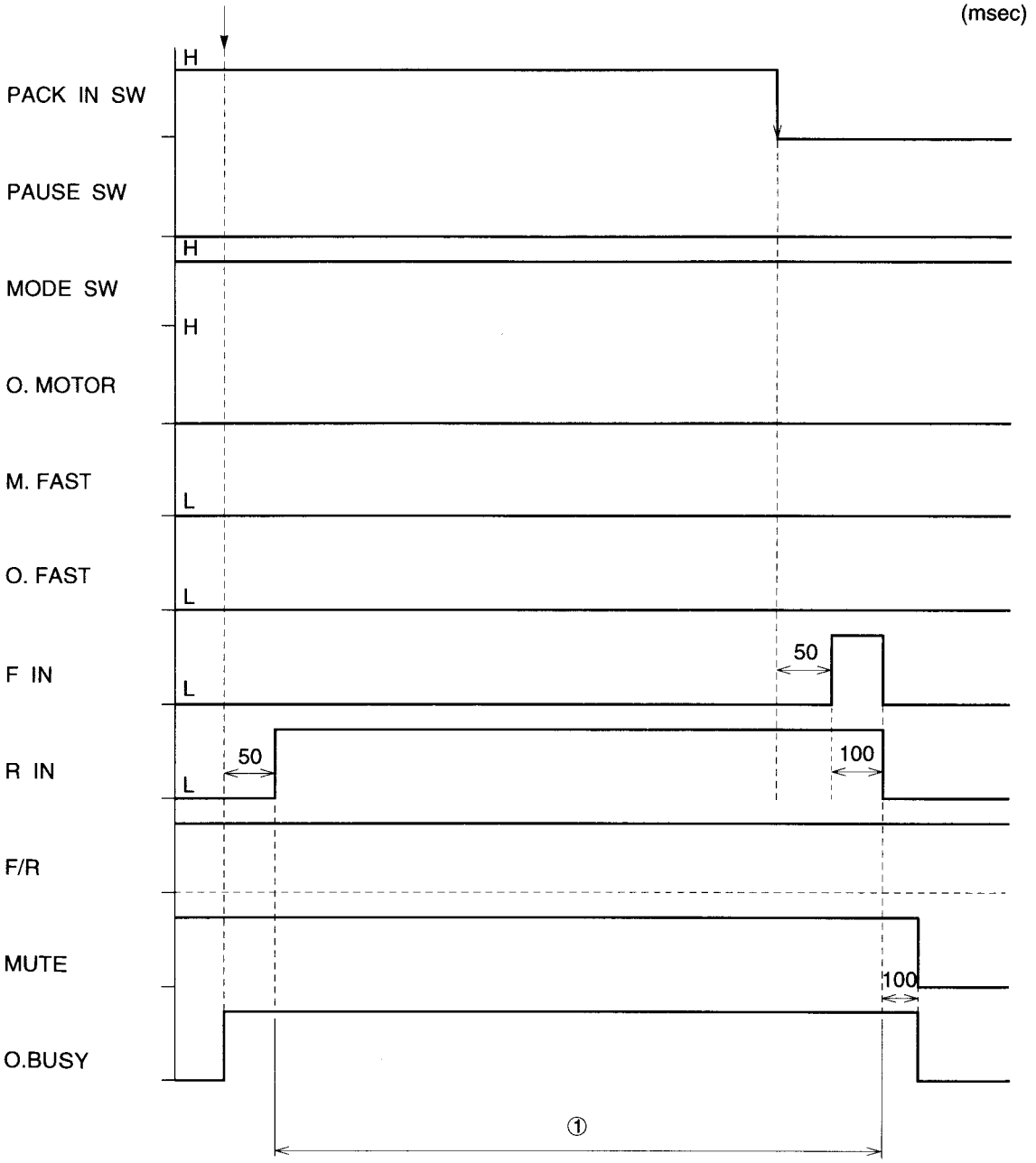
(msec)



① Tape wind stop: Main motor stops.
② Mode lever shift: Sub motor rotates and mode lever moves to a specified position and stops.

① TAPE巻取り停止：MAIN MOTOR停止
② MODE LEVER移動：SUB MOTORを回しMODE LEVERを目的の位置まで移動させ停止させる。

Shift MODE　　PAUSE → EJECT
移行モード　　PAUSE → EJECT



① Cassette pack eject: Rotates sub motor and lifts up the cassette holder.
Rotates the sub motor further to move slider forward and ejects the pack.

① カセットパック排出：SUB MOTORを回しCASSETTE HOLDERをリフトさせる。
さらにSUB MOTORを回しスライダーを手前に移動させPACKを排出させる。

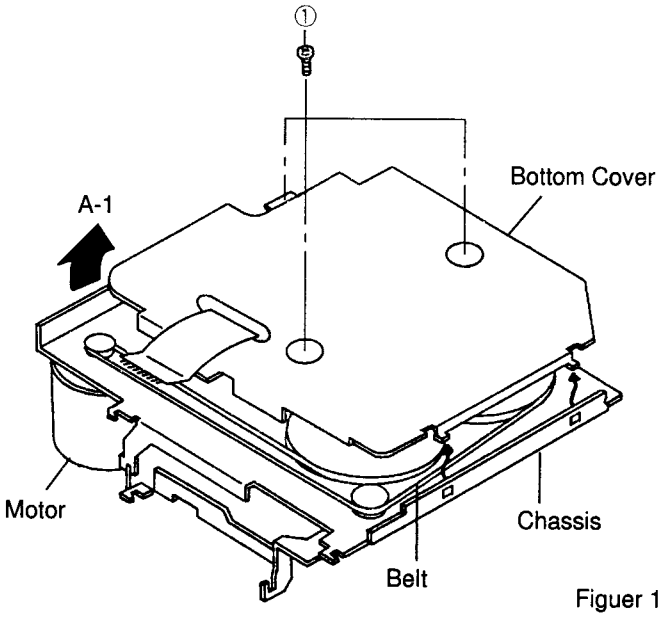
Disassembly, Assembly and Replacement of Functional Parts
機能部品の分解・組立及び交換方法

1. Disassembly and Assembly of Bottom Cover

(1) Turn the mechanism around as shown in Figure 1.
(2) Remove three screws ① as shown in Figure 1.
(3) Lift the bottom cover slowly from the position A-1, pull the hooks out of the holes in the chassis, and remove the bottom cover as shown in Figure 1.
(4) Set the mechanism to pack down status and place the mode lever to the position shown in Figure 2-1.
(5) Press the metal switch lever in direction shown by the arrow (refer to Figure 2-2), insert the pinion sub motor shaft to the pinion sub motor hook hole, and insert the chassis engagement claws into the chassis engagement holes. (Check to see the sub motor wire is placed in the normal guide position of B section.)
(6) Rotate the pinion sub motor counterclockwise after insertion of the bottom cover, and check to see the end place of A section in Figure 2 is closely touched. (refer to Figure 3)
(7) Fix the screws that have been removed.
NOTE : ① When fixing the bottom cover, be careful to avoid damage by the belt.
② Fasten the three screws with a fastening torque of 6 kg.cm.

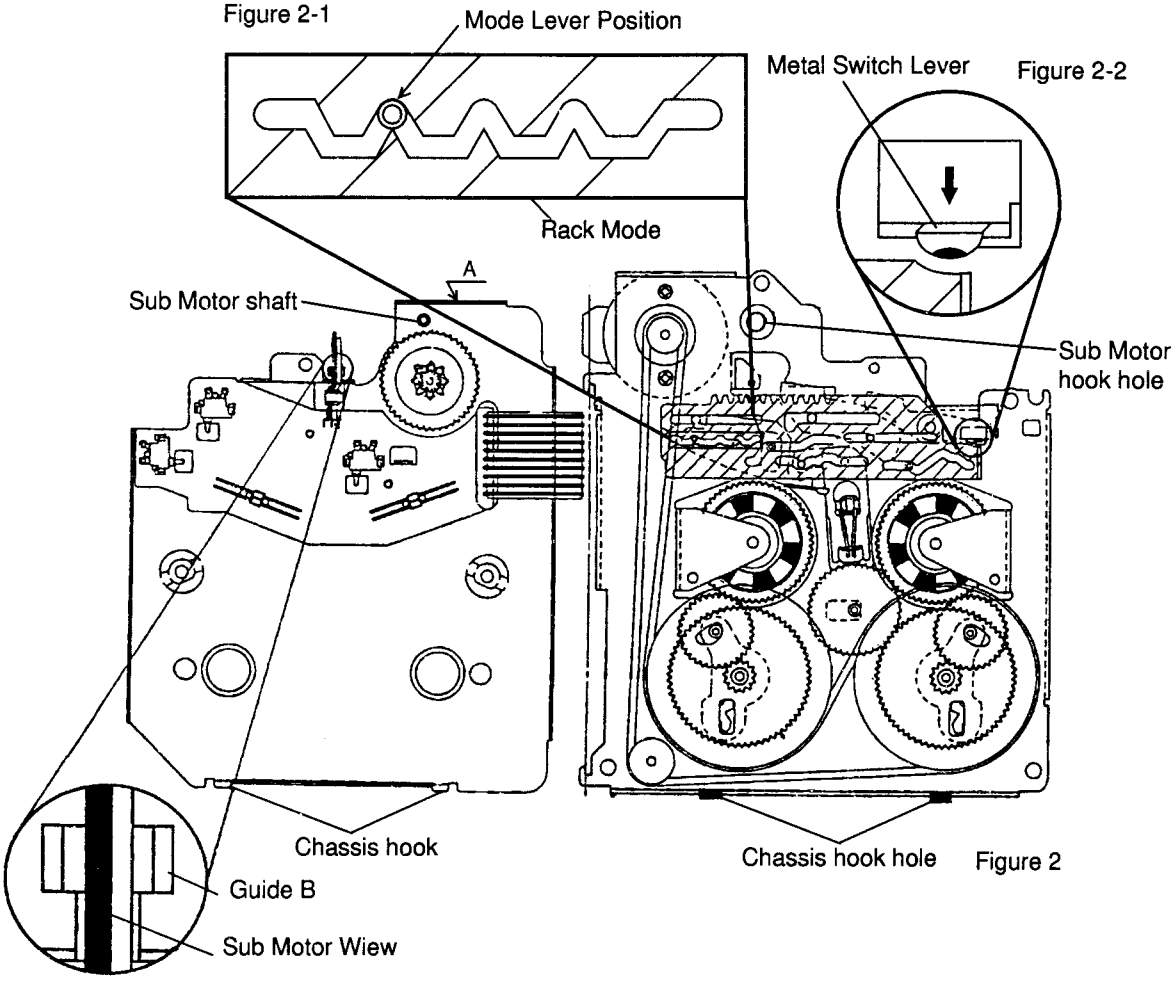
1. ボトムカバーの分解方法及び組立方法

(1) メカを裏返しにします。(図1参照)
(2) 3本のネジ①を外します。(図1参照)
(3) A -1部からボトムカバーをゆっくりと浮かし、切り起こしの嵌合部を外し、分解します。(図1参照)
(4) 組立時は、メカをバックDOWN状態にして、モードレバーの位置を図2-1の位置に合わせます。
(5) メタルSWレバーを矢印方向（図2-2参照）に押し、SUB MOTOR嵌合軸をSUB MOTOR軸嵌合穴に挿入し、シャーシー嵌合ツメをシャーシー嵌合穴に挿入します。←ボトムカバー仮装着完了。
（この時、サブモーターワイヤーがB部正規ガイド位置にあること）
(6) ボトムカバー仮装着後SUB MOTORを左回りに回し、図2A部端面がシャーシと密着したことを確認します。（図3参照）
(7) 分解時に外したネジを止めます。
[注意] ① 組立時、ベルトに傷を付けない様に注意して下さい。
② 3本のネジは6kgcmのトルクで締め付けて下さい。



Figuer 1

Figure 2-1



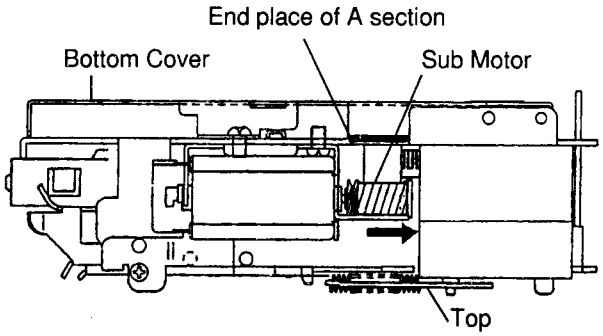


Figure 3

2. Replacement of the bottom cover mounting parts

2. ボトムカバーの取付部品の交換方法

a. Replacement of the inner gear/planet gear/sun gear

(1) Remove M1.2 lock washer ② as shown in Figure 4.

(2) Pull the eject pinion out of the inner gear and remove the inner gear, eject base pinion and sun gear as shown in Figure 4.

(3) Turn the eject base pinion, remove the three planet gear as shown in Figure 4.

(4) Apply the grease (PG-671) to the section B-1, and mount the inner gear/planet gear/sun gear following the removal steps in the reverse order. After replacement is smoothly. (Refer to Figure 6.)

NOTE : ① Do not reuse the used lock washer for remounting.
② Take care to avoid damage by piercing and tearing.
③ Do not forget insertion of planet gears. Check number of the gears also.

a. インナーギア／プラネットギア／サンギアの交換方法

(1) ロックワッシャー② (M1.2) を外します。(図4参照)

(2) イジェクトピニオンをインナーギアより引き抜き、インナーギア／イジェクトベースピニオン／サンギアの順に外します。(図4参照)

(3) イジェクトベースピニオンを裏返しにしてプラネットギア (3個) を外します。(図4参照)

(4) B-1部分にグリス (PG-671) を塗布し、取り外しの逆の手順で組み立てて下さい。尚交換後、ギアの回転がスムーズであるか確認して下さい。(図6参照)

[注意] ① 一度使用したロックワッシャーは組立時には使用しないで下さい。
② 口開き、めくれのない様に注意して下さい。
③ プラネットギアの挿入忘れ、不足のないこと。

b. Replacement of the photo sensor

(1) Remove eight solders 21 as shown in Figure 5.

(2) Remove the photo sensor from the photo P.C.Board as shown in Figure 5.

(3) Solder the legs so that the photo sensor is set as indicated by [---] in Figure 5.

NOTE : ① When using the soldering iron, set the temperature of the soldering iron to 270° ±20℃and the soldering time to less than 3 seconds.
② Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damage.

b. フォトセンサーの交換方法

(1) 8ケ所の半田21を外し、フォトセンサーをフォト基板より外します。(図5参照)

(2) 良品のフォトセンサーを図中の[---]と同じ方向になる様に半田付けします。(図5参照)

[注意] ① 半田ゴテを使用する際、半田ゴテ先温度270° ±20℃、半田付け時間3秒以下とする。
② ルーズ半田、ショート等のないこと。又、皮膜破れに注意すること。

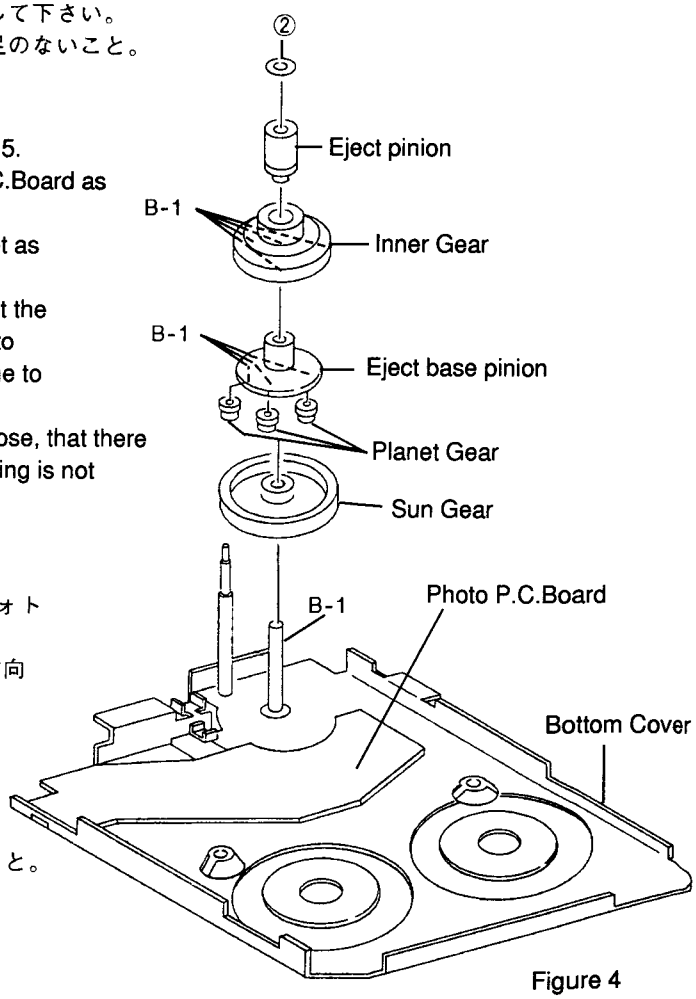


Figure 4

c. Replacement of the detector switch (Pause/Metal/Mode)

(1) Remove six solders 22 with which the switch is fixed as shown in Figure 5.

(2) Prepare the terminals of the switch of the new one as shown in Figure 6.

(3) After that, insert the switch into the photo P.C.Board, and solder the terminals.

NOTE : ① When using the soldering iron, refer to item 2-b to make sure that the temperature of the soldering iron and the soldering time are proper.

② Take care that the switch guide is properly fixed and straight.

c. 検出スイッチ（ポーズ・メタル・モード）の交換方法

(1) スイッチを止めている6ケ所の半田22をそれぞれ外します。(図5参照)

(2) 良品のスイッチの端子を水平に直します。(図6参照)

(3) フォト基板に差し込み、端子を半田付けします。

[注意] ① 項目2-bと同様に半田ゴテのコテ先温度、半田付け時間に注意すること。

② スイッチの浮き及び傾きがない様にすること。

3. Replacement of the mounting parts on the rear of the main chassis

3. メインシャーシー裏側取付部品の交換方法

a. Replacement of the belt

(1) After removing the bottom cover, remove the belt.

(2) Clean the new belt with absolute alcohol, and fix it as shown in Figure 7.

NOTE : ① When fixing the belt, make sure that is not twisted or dirty.

② When removing the belt, do not turn up the front of chassis.

a. ベルトの交換方法

(1) ボトムカバーを外した後、ベルトを取り外します。

(2) 良品のベルトを無水アルコールでクリーニングしてから掛けます。(7図参照)

[注意] ① 取り付け時、ねじれ及び汚れがない様にすること。

② ベルトを取り外した時、シャーシーを表側にしないこと。

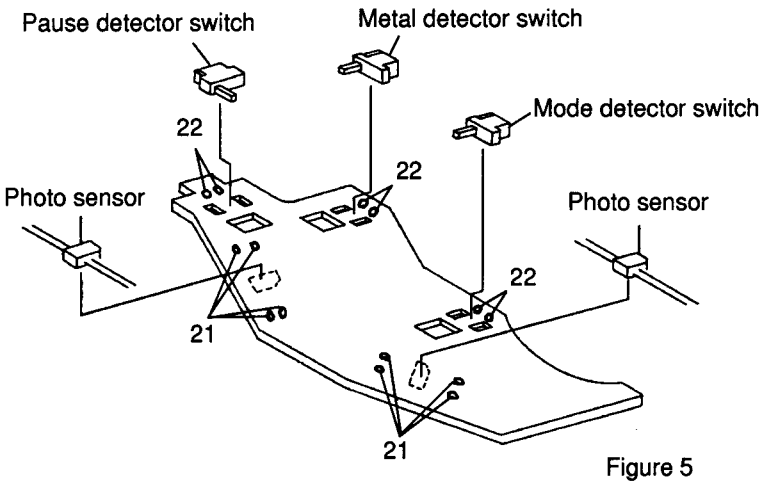


Figure 5

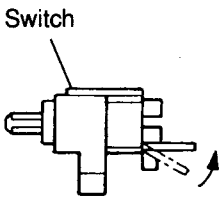


Figure 6

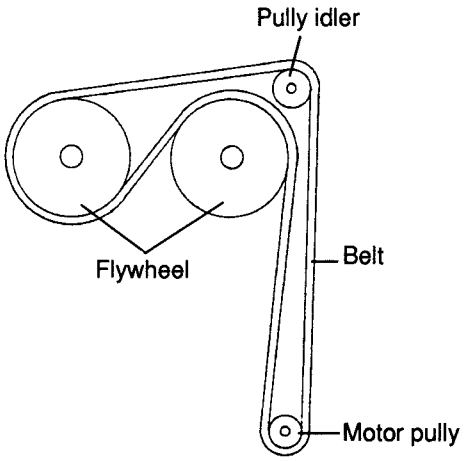


Figure 7

b. Replacement of the main motor

(1) After removing the belt, remove solder ⑫-1, and remove the wire flat (2P) from the control P.C.Board as shown in Figure 10.

(2) Remove two screws ⑦, and remove the main motor as shown in Figure 8.

(3) Mount the new motor following the removal steps in the reverse order.

NOTE : ① When using the soldering iron, set the temperature of the soldering iron to 320° ±20℃ and the soldering time to less than 3 seconds.

② Since the wire flat is very easily damaged, handle it with care.

③ Fasten the two screws with a fastening torque of 2kg.cm.

b. メインモーターの交換方法

(1) ベルトを外した後、半田⑫-1を外し、ワイヤーフラット（2P）をコントロール基板より外します。(図10参照)

(2) 2本のネジ⑦を外し、メインモーターを外します。(図8参照)

(3) 良品のメインモーターを取り外し方法の逆の手順で組み立てます。

[注意] ① 半田ゴテを使用する際、半田ゴテ先温度320° ±30℃、半田付け時間3秒以下とする。

② ワイヤーフラットは損傷し易いので取扱いには十分注意すること。

③ 2本のネジは2kgcmのトルクで締め付けること。

c. Replacement of the flywheel

(1) After removing the belt, pull out the two flywheels. Take care not to loose the polyslider washer ⑤ located between the flywheel and the chassis. (Refer to Figure 8)

(2) Fix the polyslider washer to the new flywheel and mount the flywheel to chassis.

c. フライホイールの交換方法

(1) ベルトを外した後、2個のフライホイールを引き抜きます。この時フライホイールとシャーシーの間にそれぞれ1個のポリスライダーワッシャー⑤がありますので紛失しない様に注意して下さい。(図8参照)

(2) 良品のフライホイールにポリスライダーワッシャーを取り付け、シャーシに取り付けます。

d. Replacement of the rack mode

(1) Remove M1.7 lock washer ③, and remove the rack mode as shown in Figure 8.

(2) Apply the molykote G paste to the section D-3, and mount the rack mode following the removal steps in the reverse order. (Refer to Figure 8)

NOTE : ① Check to see the rack mode can move left to right in its full stroke.

② Do not reuse the used lock washer for remounting.

③ Take care to avoid damage by piercing and tearing.

d. ラックモードの交換方法

(1) 2個のロックワッシャー③（M1.7）を外し、シャーシーより引き抜き、ラックモードを外します。(図8参照)

(2) 良品のラックモードのD-3部分にモリコートGペーストを塗布し、取り外しの逆の手順で取り付けます。

[注意] ① ラックモードは左右に全ストローク動作することを確認する。

② 一度使用したロックワッシャーは組立時には使用しないで下さい。

③ ロックワッシャー取り付け時、口開き、めくれのない様に注意すること。

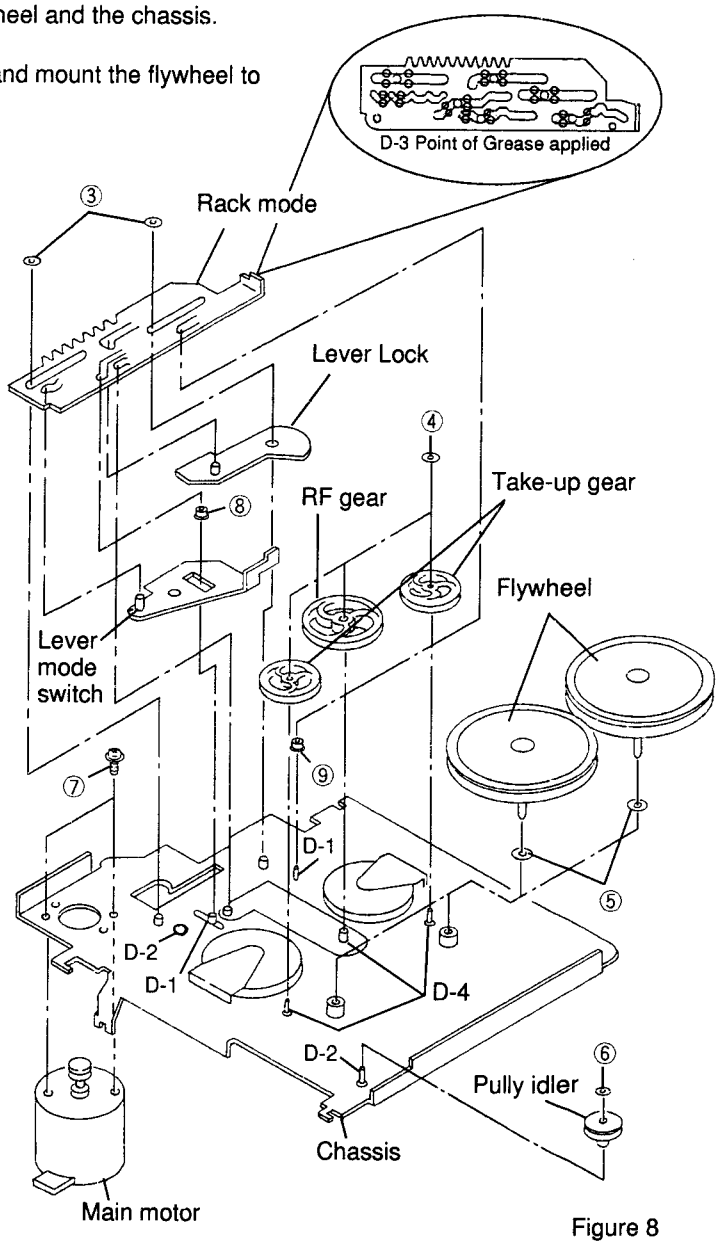


Figure 8

e. Replacement of the lever lock/lever mode switch/roller mode

(1) After removing the rack mode, remove the lever lock and lever mode switch. (Refer to Figure 8)

(2) Pull it up from the stud and remove the two roller mode ⑧, ⑨ as shown in Figure 8.

(3) Apply the molykote G paste to the section D-1, the grease (PG-671) to the section D-2 and mount the roller mode/lever mode switch/lever lock following the removal steps in the reverse order.

NOTE : ① Check to see the roller mode is inserted without fail.

e. レバーロック／レバーモードスイッチ／ローラーモードの交換方法

(1) ラックモードを外した後、レバーロック、レバーモードスイッチの順に引き抜きます。（図8参照）

(2) 2個のローラーモード⑧、⑨をスタットより引き抜きます。（図8参照）

(3) D-1部分にモリコートGペースト、D-2部分にグリス（PG-671）を塗布し、取り外し方の逆の手順で取り付けます。

[注意] ① ローラーモードの挿入忘れがないこと。

f. Replacement of gears

f-1 Replacement of the RF gear

(1) Remove M1.2 lock washer④, pull it up from the stud and remove the gear as shown in Figure 8.

(2) Mount it, following the removal steps in the reverse order.

f-1 RFギアの交換方法

(1) ロックワッシャー④（M1.2）を外し、スタットより引き抜きギアを外します。（図8参照）

(2) 取り外し方の逆の手順で取り付けます。

f-2 Replacement of the take-up gear

(1) Remove M1.2 lock washer④, pull it up from the stud and remove the gear as shown in Figure 8.

(2) Mount it, following the removal steps in the reverse order.

NOTES on f-1 and f-2 :

① Do not reuse the used lock washer for remounting.

② Take care to avoid damage by piercing and tearing.

f-2 テイクアップギアの交換方法

(1) 2個のロックワッシャー④（M1.2）を外し、スタットより引き抜きギアを外します。（図8参照）

(2) 取り外し方の逆の手順で取り付けます。

[f1, f2の注意]

① 一度使用したロックワッシャーは組立時には使用しないで下さい。

② ロックワッシャー取り付け時、口開き、めくれのない様に注意すること。

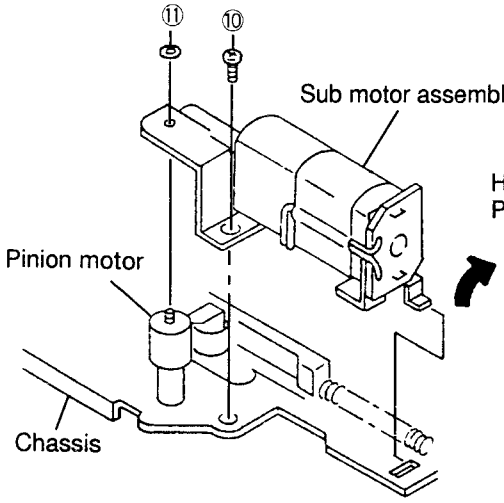


Figure 9

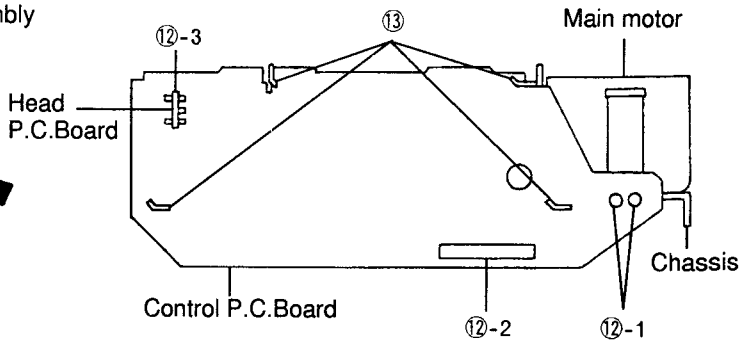


Figure 10

4. Replacement of the parts mounted on the front of the main chassis

4. メインシャーシ表側部品の交換方法

a. Replacement of the control P.C.Board

(1) Remove four solders ⑫ and remove the head P.C.Board and the two wire flat as shown in Figure 10.
(2) Remove four claws ⑬ and remove the P.C.Board as shown in Figure 10.
(3) After replacing the old P.C.Board with a new one, mount it following the removal steps in the reverse order.
NOTE : ① Since the wire flat is very easily damaged, handle it with care.
② When using the soldering iron, set the temperature of the soldering iron to 320° ±30℃ and the soldering time to less than 3 seconds, but solder point ⑫-3 to less than 1 second.
③ Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damage.

a. コントロール基板の交換方法

(1) 4ケ所の半田⑫を外し、ヘッド基板と2本のワイヤーフラット（2P)、(10P) をそれぞれ外します。(図10参照)
(2) 4ケ所のツメ⑬を外し、コントロール基板を外します。(図10参照)
(3) 良品のコントロール基板と交換後、取り外し方の逆の手順で基板を取り付けます。
[注意] ① ワイヤーフラットは損傷し易いので取扱いには十分注意すること。
② 半田ゴテを使用する際、半田ゴテ先温度320° ±30℃、半田付け時間3秒以下とする。
但し、⑫-3は1秒以下とする。
③ ルーズ半田、ショート等のないこと。

b. Replacement of the sub motor assembly

(1) Remove M1.2 lock washer ⑪ and one screw ⑩ as shown in Figure 9.
(2) Remove the sub motor assembly by pulling it up in the direction of the arrow as shown in Figure 9.
(3) Mount it, following the removal steps in the reverse order.
NOTE : ① Do not reuse the used lock washer for remounting.
② Take care to avoid damage by piercing and tearing.
③ Fasten the one screw with a fastening torque of 6kg.cm.

b. サブモーター組立の交換方法

(1) ロックワッシャー⑪ (M1.2) と1本のネジ⑩を外します。(図9参照)
(2) 図中の矢印の方向へ持ち上げながらサブモーター組立を外します。(図9参照)
(3) 取り外し方の逆の手順で取り付けます。
[注意] ① 一度使用したロックワッシャーは組立時には使用しないで下さい。
② ロックワッシャー取り付け時、口開き、めくれのない様に注意すること。
③ ネジは6kgcmのトルクで締め付けること。

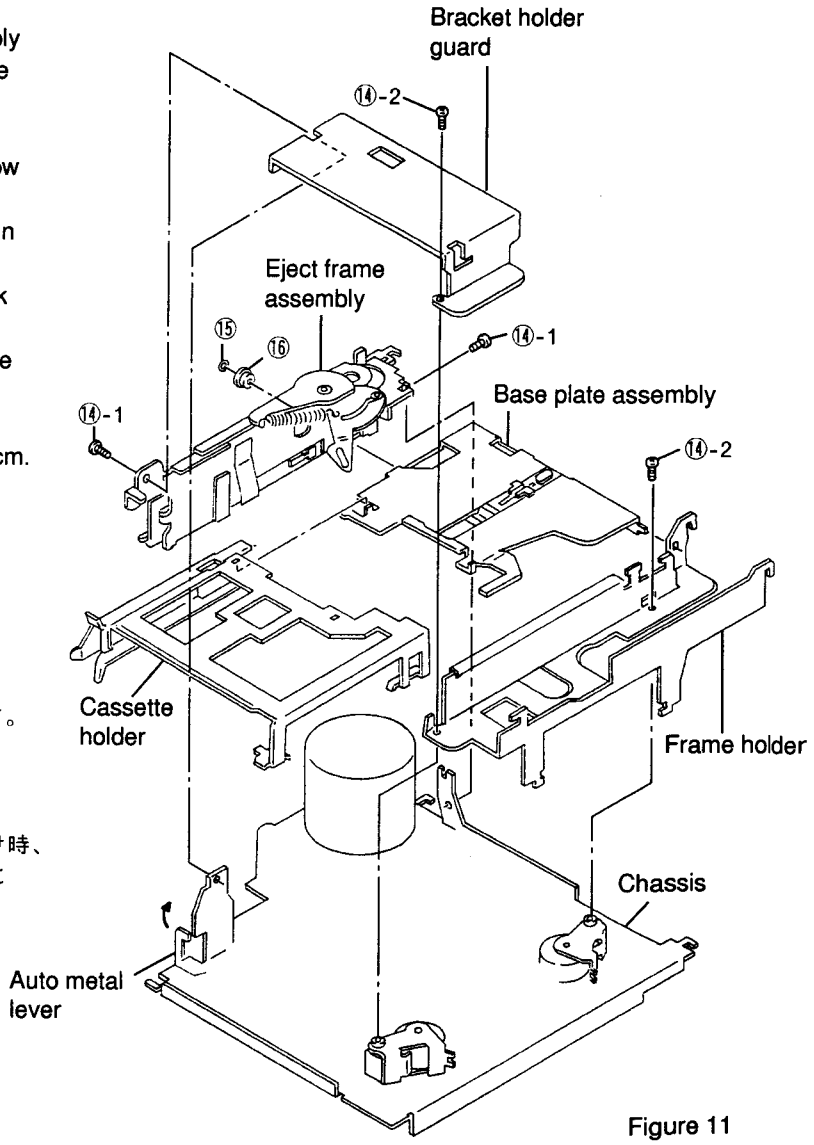


Figure 11

c. Disassembly and assembly of the cassette holder

(1) Remove four screws ⑭ and remove the eject frame assembly and the frame holder as shown in Figure 11.

(2) Remove M1.2 lock washer ⑮ and plate base roller ⑯ and remove the cassette holder and the base plate assembly as shown in Figure 11.

(3) Remount them following the removal steps in the reverse order.

NOTE : ① When mounting the cassette holder and the base plate, insert the slider shaft into the eject arm and fix them turning the slider shaft in the direction indcated by the arrow in the figure . Make sure that the cassette holder and the base plate are in the cassette-in mode during this operation. (Refer to Figure 12)

② When mounting the eject frame assembly, push the auto metal lever in the direction indicated by the arrow in the Figure 11.

③ When mounting the base plate assembly and the eject frame assembly, or when mounting the eject frame assembly to the chassis, do not apply excessive force to avoid deformations of the eject arm and the frame.

④ Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

⑤ Fasten the two screws ⑭-1 with a fastening torque of 6kg.cm. and the two screws ⑭-2 with a fastening torque of 1.5kg.cm.

c. カセットホルダーの分解方法及び組立方法

(1) 4本のネジ⑭を外し、イジェクトフレーム組立及びフレームホルダーを外します。(図11参照)

(2) ロックワッシャー⑮ (M1.2) とプレートベースローラー⑯を外し、カセットホルダーとベースプレート組立を外します。(図11参照)

(3) 分解方法と逆の手順で取り付けます。

[注意] ① カセットホルダーとベースプレート組立を組み立てる際、スライダーのシャフトをイジェクトアームに挿入し、図の様に矢印方向に回しながら取り付けます。この時カセットホルダーとベースプレートはカセットインの状態で行うこと。(図12参照)

② イジェクトフレーム組立をシャーシーに取り付ける際、オートメタルレバーを図の様に矢印方向に押して下さい。(図11参照)

③ ベースプレート組立とイジェクトフレーム組立を取り付ける際、又、シャーシーとイジェクトフレーム組立を取り付ける際は、必要以上の力を加えないで下さい。(イジェクトアーム、フレームの変形防止の為)

④ 一度使用したワッシャーは、使用しないこと。又、口開き、めくれのないこと。

⑤ ネジ⑭-1は6kgcm、⑭-2は1.5kgcmのトルクで締め付けること。

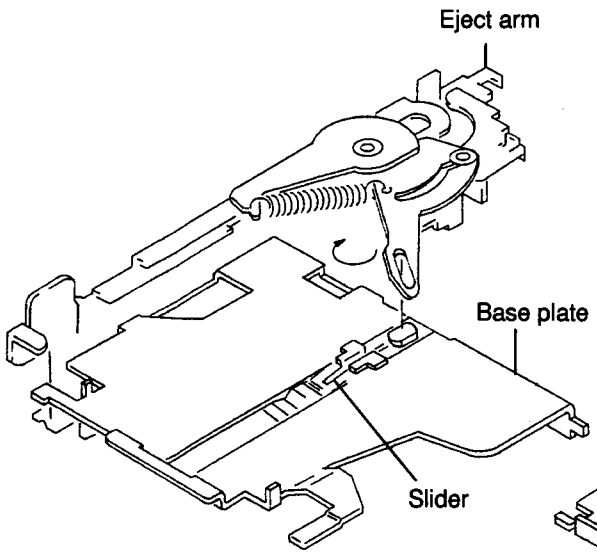


Figure 12

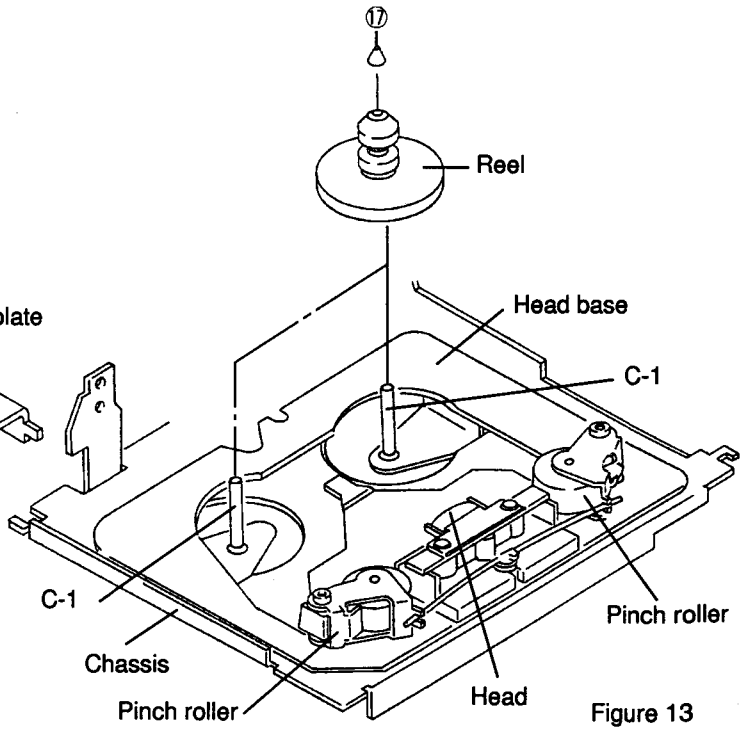


Figure 13

d. Replacement of the reels
(1) Remove two reel cap ⑰ as shown in Figure 13.
(2) After replacement, apply the grease (PG-671) to the section C-1, and mount the new reels following the removal steps in the reverse order.
(3) After mounting, check the tape speed and the wow & flutter with test tape MTT-111N.
NOTE : ① Since the reel is easily loosened if the cap is gripped, always handle it gripping, the gear.

d. リールの交換方法
(1) 2個のリールキャップ⑰をそれぞれ外します。(図13参照)
(2) 良品のリールと交換後C-1部分にグリス (PG-671) を塗布し、取り外し方の逆の手順で取り付けます。
(3) 取り付け後、必ずテストテープ (MTT-111N) でテープスピード・ワウフラッターの確認をすること。
[注意] ① リールの取り外し、取り付けの際、キャップをつかむと外れ易いので必ずギア部をつかんで行って下さい。

e. Replacement of the pinch rollers
(1) Remove pinch roller spring ⑱ as shown in Figure 14.
(2) Remove M3.1 two lock washers ⑲ and remove the pinch roller and guide pack as shown in Figure 14.
(3) Mount the pinch rollers following the removal steps in the reverse order. Apply the molykote G paste to the section C-2 as shown in Figure 14.
NOTE : ① Make sure that the pinch rollers are thoroughly fixed and that they are not deformed.
② Do not reuse the used lock washers for remounting.
③ Take care to avoid damage by piercing and tearing.

e. ピンチローラーの交換方法
(1) ピンチローラースプリング⑱を外します。(図14参照)
(2) 2個のロックワッシャー⑲ (M3.1) をそれぞれ外し、ガイドパックと一緒にピンチローラーを外します。(図14参照)
(3) C-2部分にモリコートGペーストを塗布し、取り外し方の逆の手順で取り付けます。
[注意] ① ピンチローラーの半掛け、変形のないこと。
② 一度使用したロックワッシャーは組立時には使用しないで下さい。
③ ロックワッシャー取り付け時、口開き、めくれのない様に注意すること。

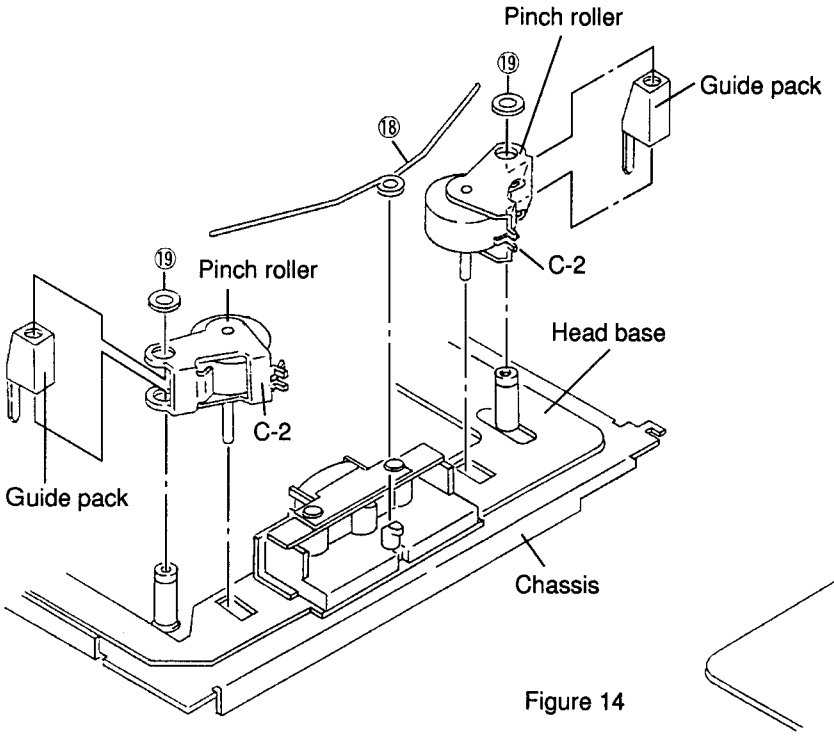


Figure 14

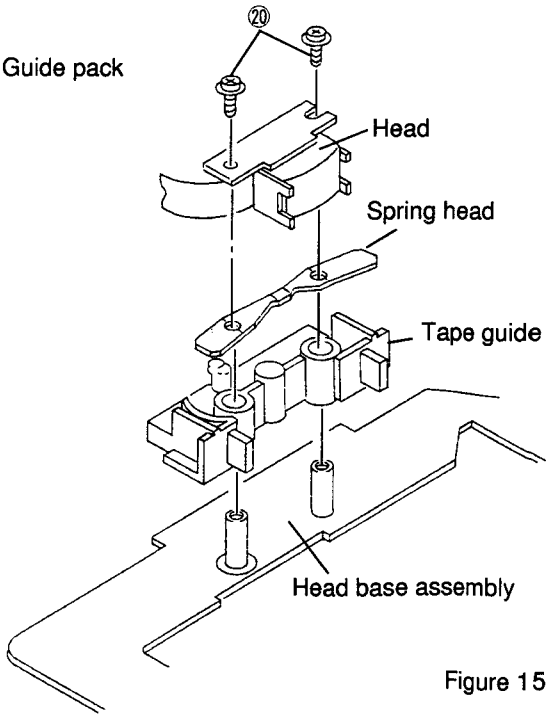


Figure 15

f. Replacement of the head

(1) After removing the pinch roller spring, remove two screws ⑳ as shown in Figure 15.

(2) Remove solder 23 and remove the head from the head P.C.Board as shown in Figure 16.

(3) After replacement, mount the new head following the removal steps in the reverse order.

NOTE : ① When using the soldering iron, set the temperature of the soldering iron to270° ±20℃ and the soldering time to less than 1 second.

② Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damage.

③ Do not bring the soldering iron near the head P.C.Board. Make sure that the head P.C.Board is not lifted.

④ Fasten the two screws with a fastening torque 1kg.cm. Note that the tension of the head spring can be descreased if the screws are fastened too strongly.

(4) Adjust the height of the head as shown in Figure 17, 18 and 19.

(4) -1 Place the height adjustment gauge(AI-500) on the head base, and adjust the height so that the check bar fits in the tape head guide smoothly.

(4) -2 When the check bar touches the top (or bottom) of the tape guide, insert a spacer (t0.1mm or polyslider washer t0.13mm). If necessary, remove the spacer.

NOTE : ① If you do not have a height gauge like described in (4)-1, run the tape at normal speed and adjust the height of the head and the tape head guide so that the tape does not curl.

(5) After having assembled the complete mechanism, adjust the angle of the head with test tape MTT-114NB. (Refer to chapter "Adjustment of the head angle".) After the adjustment, apply the screw lock and fix the screws.

f. ヘッドの交換方法

(1) ピンチローラースプリングを外した後、2本のネジ⑳を外します。(図15参照)

(2) 半田23を外し、ヘッド基板からヘッドを取り外します。(図16参照)

(3) 良品のヘッドと交換後、取り外し方の逆の手順で取り付けます。

[注意] ① 半田ゴテを使用する際、半田ゴテ先温度270° ±20℃、半田付け時間1秒以下とする。

② ルーズ半田、ショート等のないこと。

③ ヘッド基板には、コテ先を当てないこと。又、ヘッド基板に浮きがない様注意すること。

④ 2本のネジは1kgcmのトルクで締め付けること。但し、ネジを締め過ぎるとヘッドバネがヘタり、バネ性がなくなるので注意すること。

(4) ヘッド高さ調整を行います。(図17、18、19参照)

(4) -1 高さゲージ (AI-500) をヘッドベースにのせ、チェック・バーがテープヘッドガイドにスムーズに入る高さに合わせます。

(4) -2 テープガイドの上 (又は下) にチェック・バーが当たる時は、スペーサー (t0.1mm又はポリスライダーワッシャーt0.13mm) を一枚入れます。又は、スペーサーを外すことによって当りをなくす様にします。

[注意] ① (4) -1の様に高さゲージがない場合は、テープを通常走行させ、テープカーリングが生じなくなる様に高さ (ヘッド及びテープヘッドガイド) を調整します。

(5) 最終的な1台のメカと言う状態に組み上げた後、テストテープ (MTT-114NB) でヘッドの角度を調整します。(ヘッド角度調整方法の項目を参照して下さい。) 調整後、ネジロックを塗布し、ネジを固定します。

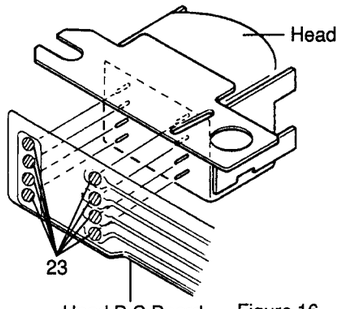


Figure 16

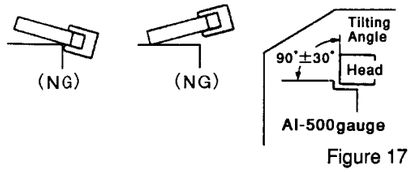


Figure 17

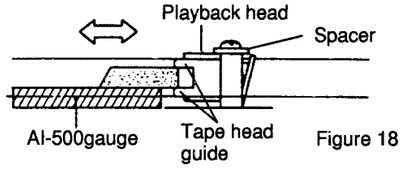


Figure 18

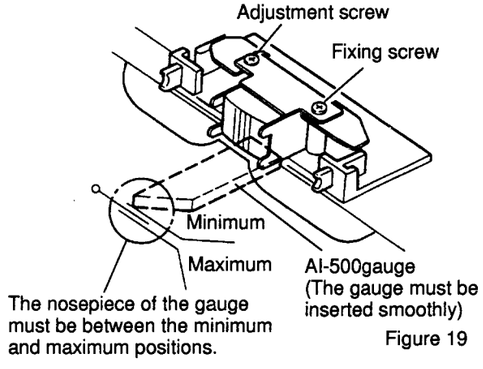
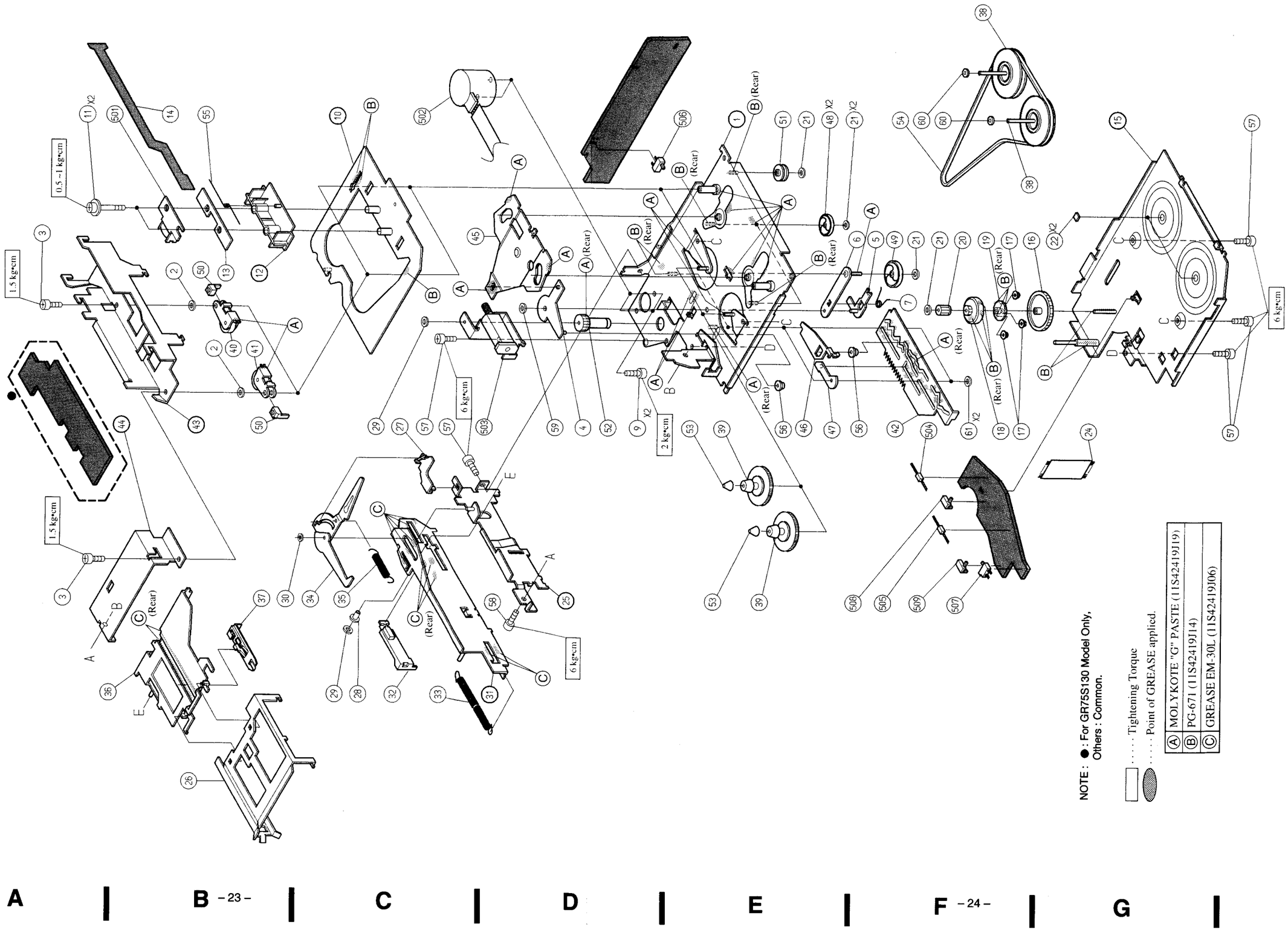


Figure 19

MEMO

Exploded View (Cassette Deck Mechanism)



Cassette Deck Mechanism Assembly Parts List

NOTE:No parts number on parts list are not supplied.

Symbol No.		Index	Part No.	Description
	2		04B41345P32	Washer, Lock (M3.1)
	3		03S43997P63	Screw, Pan (M1.7 ×4)
	4	3-D	01A71716W01	Assy., Riv. Select Swing
	5	2-F	01A71714W01	Assy., Riv. RF Lever A
	6	2-E	01A71715W01	Assy., Riv. RF Lever B
	7	2-F	41A71781W01	Spring, RF
	9	3-D	03C42723U12	Screw, Cup (M2 ×2.5)
	11		03A80452W01	Screw, F Locks (M2 ×10.7)
	13	2-B	41A31756W01	Spring, Head
○	14	2-B	84T45462W01	Head P.C.Board
●	14	2-B	84T25151W01	Head P.C.Board
	16	2-G	44A71747W01	Gear, Sun
	17		44A71748W01	Gear, Planet
	18	3-F	44A71749W01	Gear, Inner
	19	2-F	44A71751W01	Pinion, Eject Base
	20	2-F	44A71752W01	Pinion, Eject
	21		04B41345P11	Washer, Lock (M1.2)
	22	2-G	43A41656W01	Spacer, UHMW-PE
	24	3-G	30T65174W07	Wire, Flat 10P
	26	5-B	07B71778W01	Holder, Cassette
	27	3-C	45A71736W01	Lever, Pack In Switch
	28	5-C	43A71775W01	Roller, Plate Base
	29		04B41345P01	Washer, Lock (M1.2)
	30	4-B	04B41345P15	Washer, Lock (M1.2)
	32	5-C	44A71753W01	Rack, GR-S
	33	5-C	41A80634W01	Spring, Rack
	34	4-C	01A71720W01	Assy., Riv. Eject Arm A
	35	4-C	41B63283F11	Spring
	36	4-A	01A71712W01	Assy., Riv. Plate Base
	37	3-B	45B71750W01	Slider
	38		01A71783W01	Flywheel
	39		01A71784W01	Reel
	40	3-B	01B81372W01	Assy., Pinch Roller
	41	3-B	01B81372W02	Assy., Pinch Roller
	42	3-F	44B71726W01	Rack, Mode
	45	2-C	45B71729W01	Lever, Select
	46	3-E	45A71737W01	Lever, Mode Switch
	47	3-E	45A71733W01	Lever, Lock
	48	2-E	44A71741W01	Gear, Take Up
	49	2-F	44A71742W01	Gear, RF
	50		43A71743W01	Guide, Pack
	51	2-E	49A71744W01	Pulley, Idler
	52	3-D	44A71746W01	Pinion, Motor
	53		49A71003W01	Reel, Cap
	54	2-F	42A71780W01	Belt
	55	2-B	41A10387W01	Spring, Pinch Roller
	56		43A71774W01	Roller, Mode
	57		03S44205G30	Screw, Pan (M2.6 ×4)
	58	4-D	03A80629W01	Screw, Special (M2.6 ×6)
	59	3-D	04B41345P02	Washer, Lock (M1.7)
	60	2-F	04S40075G05	Washer, Polyslider (M2.1)
●	or	2-F	04T55449W01	Washer, Teflon
	61	3-F	04B41345P13	Washer, Lock (M1.7)

Miscellaneous

	501	2-A	88T75612W01	Head
○	502	2-C	01V74500W16	Assy., Main Motor (13.2V-55mA)
●	502	2-C	01V84200W63	Assy., Main Motor (6V-90mA)
	503	3-D	01V74500W23	Assy., Sub Motor (7V-370mA)
	504	3-F	51T63433F03	Sensor, Photo ON2170-R2
	505	4-F	51T63433F03	Sensor, Photo ON2170-R2
	506	2-D	40T15222W01	Switch, Detector (PACK IN)
	507	4-F	40T15382W02	Switch, Detector (PAUSE)
	508	4-F	40T15382W02	Switch, Detector (MODE)
	509	4-F	40T15382W02	Switch, Detector (METAL)

NOTE : ○: For GR75S120 Model Only, ●: For GR75S130 Model Only, Others : Common.

ALPINE®

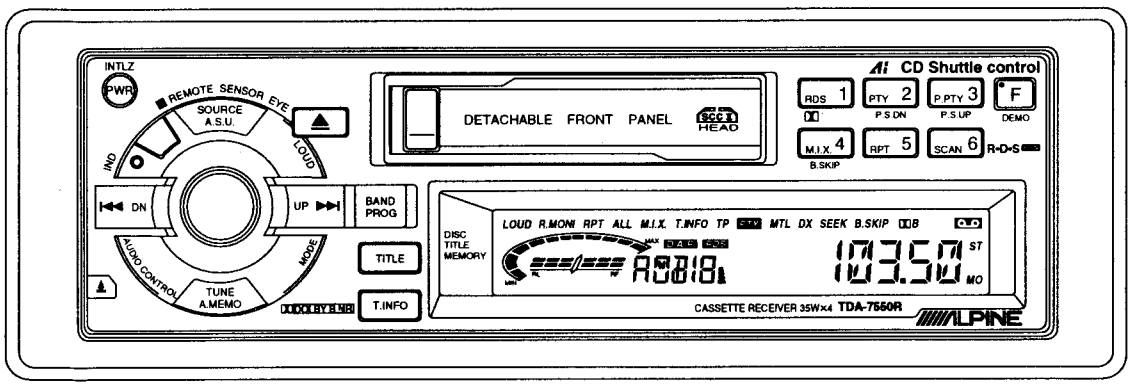
SERVICE MANUAL

FM/MW/LW/RDS Cassette Receiver

CD Shuttle Controller

– REVISED –

- Serial Numbers after No. 70410001.
- The model described in this manual is developed from Model TDA-7550R. For information that is not mentioned in this service manual, refer to the Service Manual • TDA-7550R (Part No. 68E23869S01).
- For the cassette deck mechanism parts (GR75S120) of this model, refer to the Service Manual • GR-S Series (Part No. 68E23241S01).



TDA-7550R

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Adjustment Locations
Description of IC Terminal
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Exploded View (Cabinet)
Cabinet Assembly Parts List
Disassembly Instructions
Semi-Conductor Lead Identifications

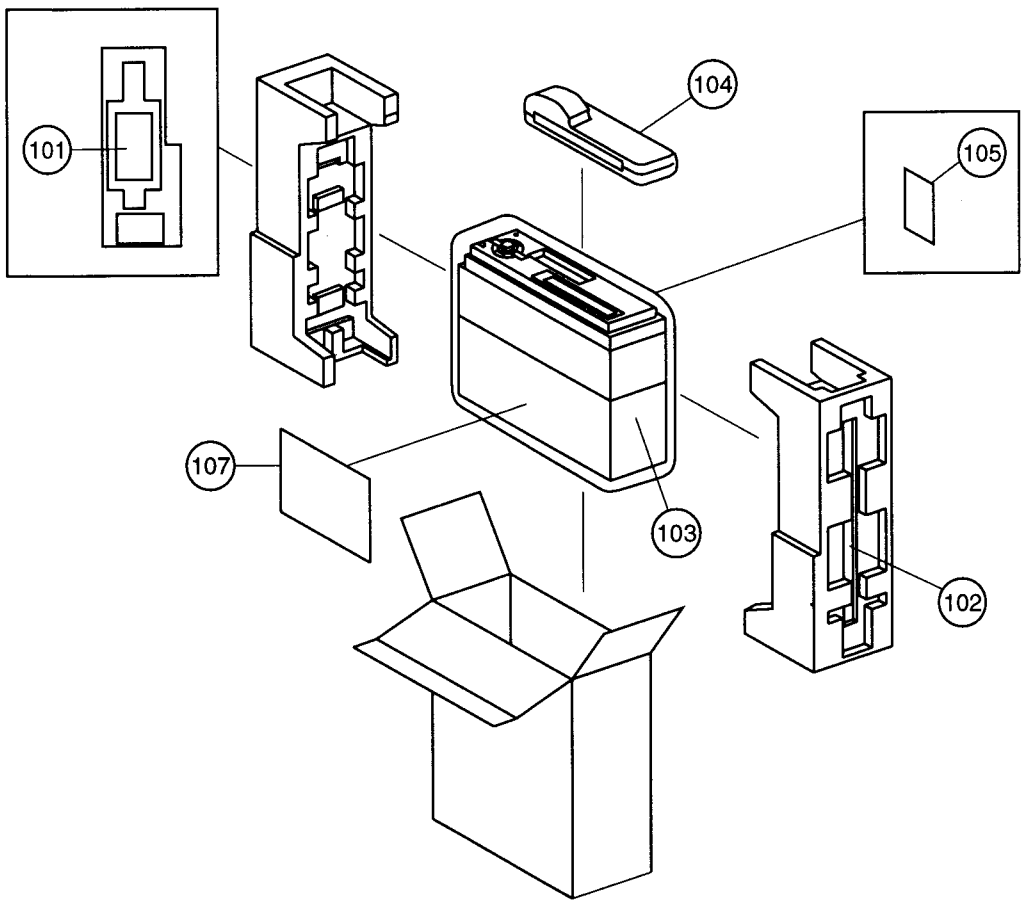
Refer to the Service Manual · TDA-7550R (Part No. 68E23869S01).

Packing Assembly Parts List

NOTE : For the parts not mentioned, refer to the Service Manual for TDA-7550R (Part No. 68E23869S01).

Model	TDA-7550R		TDA-7550R	
Symbol No.	Part No.	Description	Part No.	Description
107	68P80683W20	Owner's Manual	68P81402W53	Owner's Manual

Packing Method View



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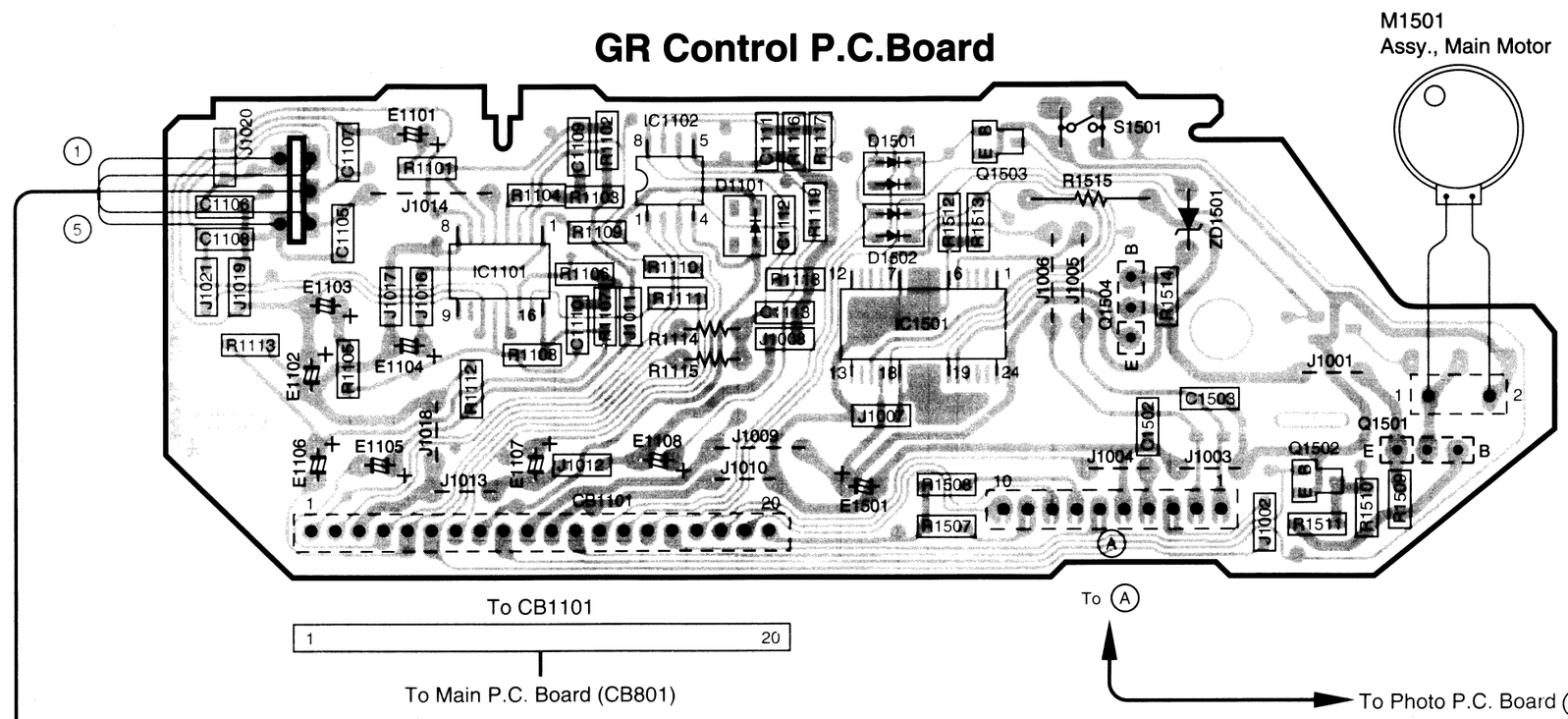
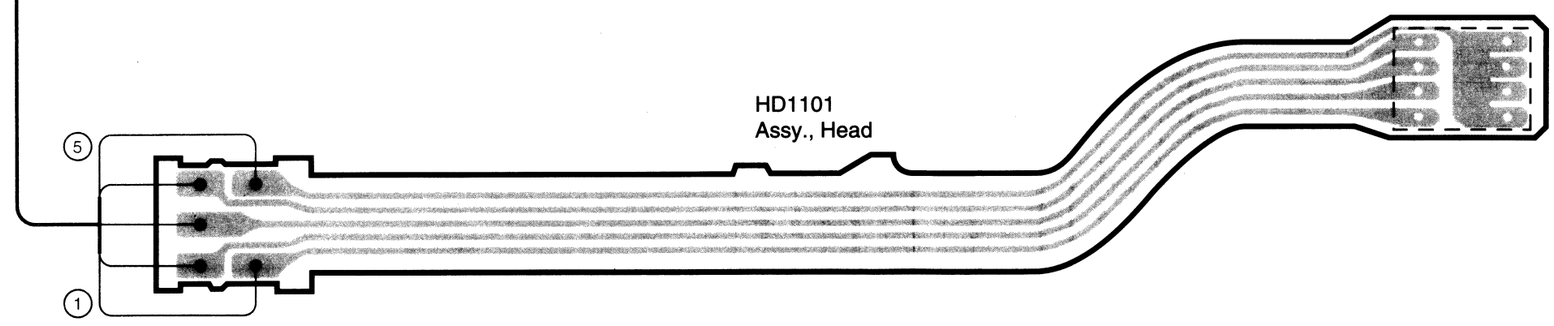
Parts Layout on P.C. Boards and Wiring Diagram (3/4)

All P.C. Boards viewed from soldered side.

NOTE: Refer to the Service Manual • TDA-7550R (Part No. 68E23869S01) for description not mentioned in this manual.

GR Control P.C.Board

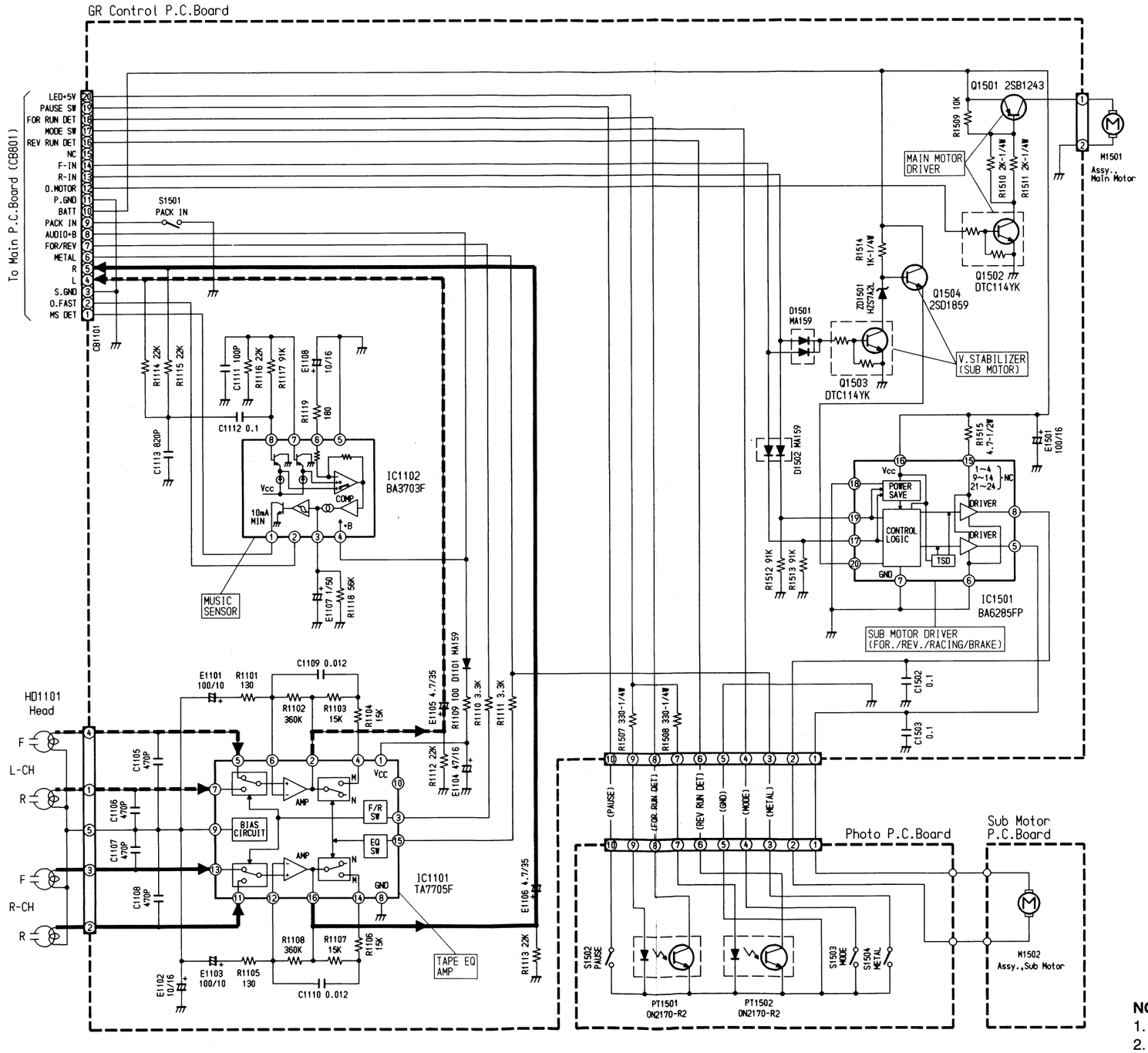




Blue Color Pattern : Foil Side Pattern

Schematic Diagram (6/6)

IC	IC1102 IC1101	IC1501
Transistor (Q,PT)	PT1501 PT1502	Q1503 Q1504 Q1502 Q1501



NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1{,}000{,}000}$

Electrical Parts List

NOTE : For the parts not mentioned, refer to the Service Manual for TDA-7550R (Part No. 68E23869S01).

Model	TDA-7550R		TDA-7550R	
Symbol No.	Part No.	Description	Part No.	Description
Main P.C.Board				
IC's				
IC501	51T85151W08	85151W08	51T85180W03	85180W03
IC502	51T85088W01	85088W01	51T85088W02	85088W02
Buzzer				
BPF001	91T75257W01	Filter, LPF11830K	91T75257W02	Filter, LPF11830KH
Front P.C.Board				
Switches				
S401	40T55656W03	Tact, CP. SKQMAJ (INTLZ/PWR)	40T55656W06	Tact, CP. SKQMAJ (INTLZ/PWR)
S405	40T55656W03	Tact, CP. SKQMAJ (REW/DN)	40T55656W06	Tact, CP. SKQMAJ (REW/DN)
S406	40T55656W03	Tact, CP. SKQMAJ (FF/UP)	40T55656W06	Tact, CP. SKQMAJ (FF/UP)
S408	40T55656W03	Tact, CP. SKQMAJ (BAND/PROG)	40T55656W06	Tact, CP. SKQMAJ (BAND/PROG)
S411	40T55656W03	Tact, CP. SKQMAJ (RDS/1/DOLBY)	40T55656W06	Tact, CP. SKQMAJ (RDS/1/DOLBY)
S412	40T55656W03	Tact, CP. SKQMAJ (PTY/2/P.S. DN)	40T55656W06	Tact, CP. SKQMAJ (PTY/2/P.S. DN)
S413	40T55656W03	Tact, CP. SKQMAJ (P.PTY/3/P.S. UP)	40T55656W06	Tact, CP. SKQMAJ (P.PTY/3/P.S. UP)
S414	40T55656W03	Tact, CP. SKQMAJ (M.I.X./4/B.SKIP)	40T55656W06	Tact, CP. SKQMAJ (M.I.X./4/B.SKIP)
S415	40T55656W03	Tact, CP. SKQMAJ (RPT/5)	40T55656W06	Tact, CP. SKQMAJ (RPT/5)
S416	40T55656W03	Tact, CP. SKQMAJ (SCAN/6)	40T55656W06	Tact, CP. SKQMAJ (SCAN/6)
S417	40T55656W03	Tact, CP. SKQMAJ (F/DEMO)	40T55656W06	Tact, CP. SKQMAJ (F/DEMO)
GR Control P.C.Board				
Capacitors				
C1501	08S65128F76	CP., 0.1µF	—	—
C1502	—	—	08S65128F76	CP., 0.1µF
C1503	—	—	08S65128F76	CP., 0.1µF
Resistors		(All resistors are chip 1/10W±5% unless otherwise noted.)		
R1103	06S64995F80	13K ohm	06S64995F81	15K ohm
R1104	06S53330F80	13K ohm 1/8W	06S53330F81	15K ohm 1/8W

Model	TDA-7550R		TDA-7550R	
Symbol No.	Part No.	Description	Part No.	Description
R1106	06S64995F80	13K ohm	06S64995F81	15K ohm
R1107	06S64995F80	13K ohm	06S64995F81	15K ohm
R1119	06S64995F32	130 ohm	06S64995F35	180 ohm
Miscellaneous				
CB501	09T75038W16	16P Connector	09T85354W16	16P Connector
CH401	09T75039W16	16P Connector	09T85353W16	16P Connector

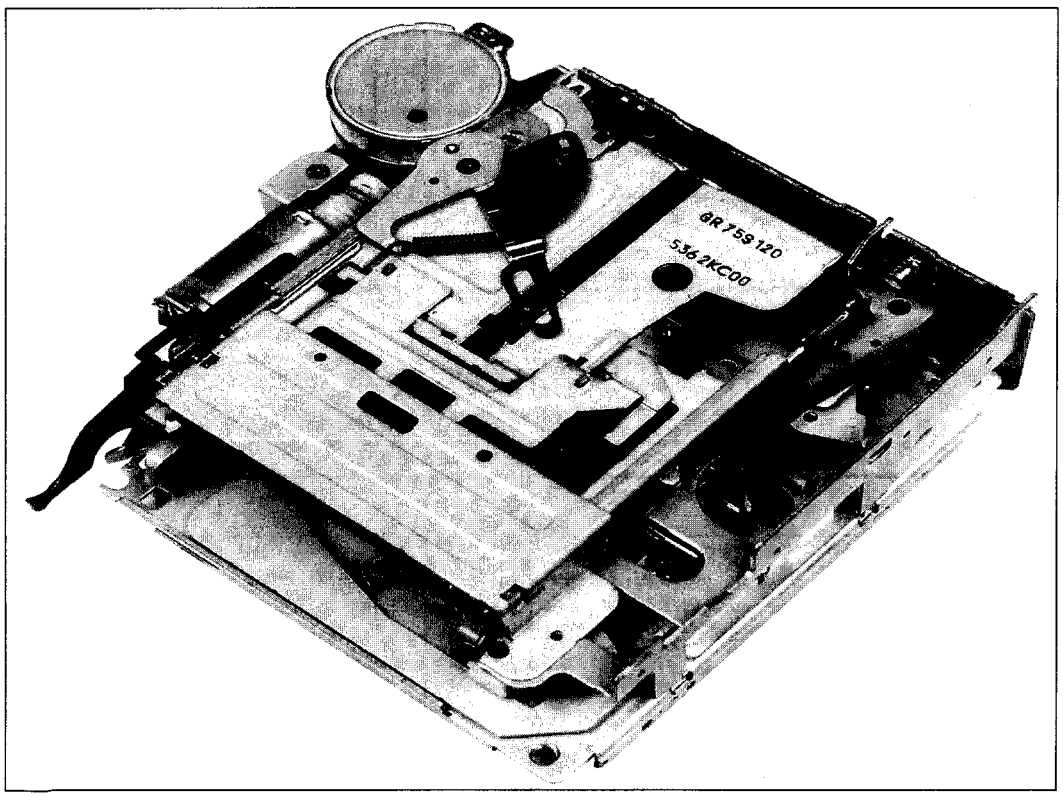
ALPINE®

SERVICE MANUAL

Cassette Deck Mechanism

ADDENDUM & REVISED

- This manual is described on GR75S310 only. The GR75S310 is developed from GR-S SERIES. For information that is not mentioned in this service manual, refer to the Service Manual • GR-S SERIES (68E23241S01).
- 当マニュアルはGR75S310についてのみ記載しております。又、GR-S SERIESがベースモデルとなっておりますので、相違部分のみ記載しております。詳細についてはGR-S SERIES (68E23241S01) を参照願います。



GR-S SERIES

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Basic Operation of GR-S Mechanism
Disassembly, Assembly and Replacement of Function Parts
] Refer to the Service Manual · GR-S SERIES (Part No. 68E23241S01).

NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

Cassette Deck Mechanism Assembly Parts List

NOTE: The parts is not mentioned, refer to the Service Manual · DR-S SERIES (Part No.68E23241S01).

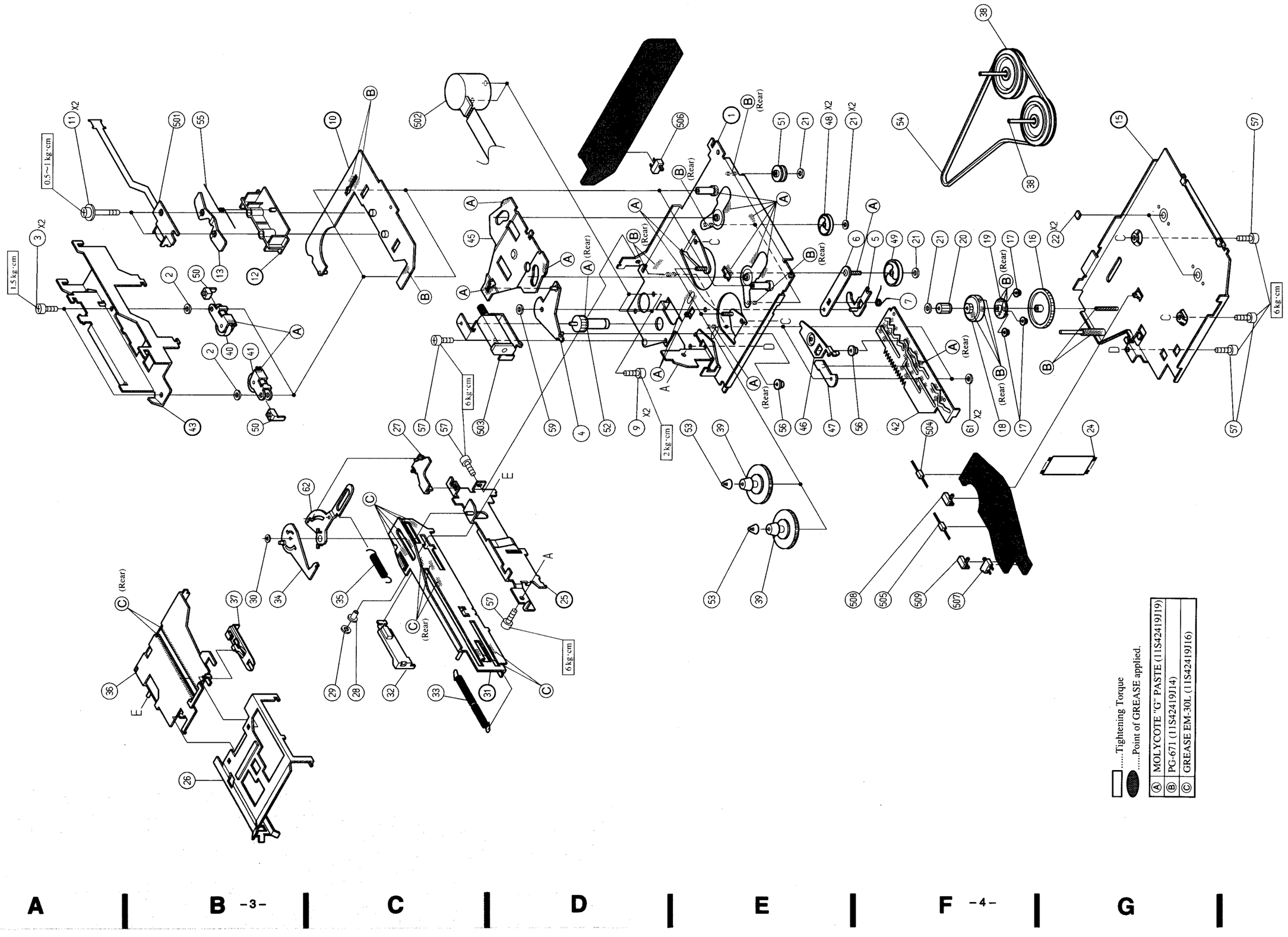
Symbol No.	Index	Part No.	Description
4	3-D	01A90342W01	Assy., Riv. Select Swing
5	2-F	01A90340W01	Assy., Riv. RF Lever A
6	2-F	01A90341W01	Assy., Riv. RF Lever B
11	2-A	03A80452W02	Screw, F Locks (M2X10.7)
13	2-B	41A31756W02	Spring, Head
26	5-B	07B40012W02	Holder, Cassette
27	3-C	45A71736W02	Lever, Pack In Switch
34	4-B	01A90346W01	Assy., Riv. Eject Arm (B)
36	4-A	01A90338W01	Assy., Riv. Plate Base
38		01A90350W01	Assy., Flywheel
40	3-B	01B30863W01	Assy., Pinch Roller
41	3-B	01B30863W02	Assy., Pinch Roller
42	3-F	44B90318W01	Rack, Mode
45	2-C	45B90320W01	Lever, Select
46	3-E	45A71737W02	Lever, Mode Switch
47	3-E	45A71733W02	Lever, Lock
53		49A81855W01	Reel, Cap
54	2-F	42A71780W02	Belt
55	2-B	41A10387W02	Spring, Pinch Roller
62	3-B	45A90322W01	Lever, Eject Arm A
Miscellaneous			
501	2-B	88T95215W02	Head
503	3-C	01V91700W81	Assy., Sub Motor (7V-370mA)

カセットデッキメカニズム関係部品表

※ 記載されていない部品については、サービスマニュアル・GR-S SERIES (68E23241S01) を参照願います。

記号	索引	部品番号	部品名	標準卸価格
4	3-D	01A90342W01	Assy., Riv. Select Swing	—
5	2-F	01A90340W01	Assy., Riv. RF Lever A	—
6	2-F	01A90341W01	Assy., Riv. RF Lever B	—
11	2-A	03A80452W02	Screw, F Locks (M2X10.7)	45
13	2-B	41A31756W02	Spring, Head	60
26	5-B	07B40012W02	Holder, Cassette	260
27	3-C	45A71736W02	Lever, Pack In Switch	—
34	4-B	01A90346W01	Assy., Riv. Eject Arm (B)	—
36	4-A	01A90338W01	Assy., Riv. Plate Base	—
38		01A90350W01	Assy., Flywheel	—
40	3-B	01B30863W01	Assy., Pinch Roller	240
41	3-B	01B30863W02	Assy., Pinch Roller	240
42	3-F	44B90318W01	Rack, Mode	—
45	2-C	45B90320W01	Lever, Select	—
46	3-E	45A71737W02	Lever, Mode Switch	—
47	3-E	45A71733W02	Lever, Lock	—
53		49A81855W01	Reel, Cap	45
54	2-F	42A71780W02	Belt	—
55	2-B	41A10387W02	Spring, Pinch Roller	—
62	3-B	45A90322W01	Lever, Eject Arm A	—
その他の電気部品				
501	2-B	88T95215W02	Head	1,210
503	3-C	01V91700W81	Assy., Sub Motor (7V-370mA)	1,440

Exploded View (Cassette Deck Mechanism)



ALPINE®

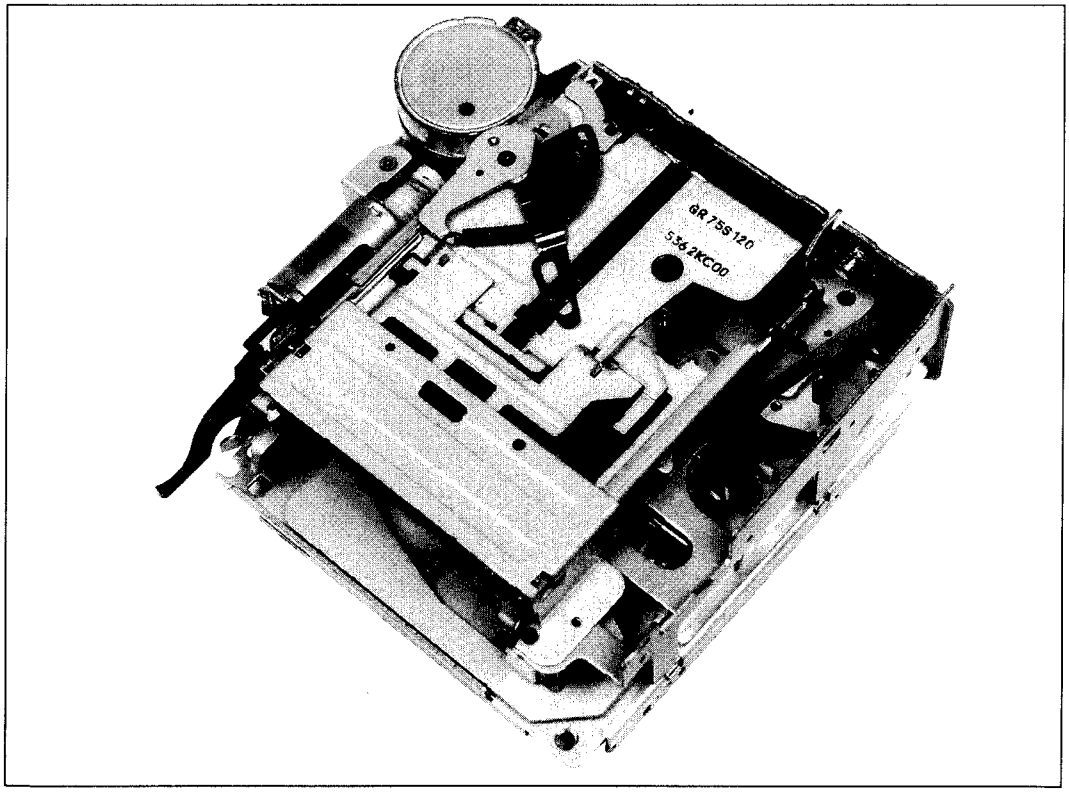
SERVICE MANUAL

Cassette Deck Mechanism

ADDENDUM & REVISED (II)

● This manual is described on GR75S410/42Y only. The GR75S410/42Y is developed from GR-S SERIES. For information that is not mentioned in this service manual, refer to the Service Manual • GR-S SERIES (68E23241S01).

● 当マニュアルはGR75S410/42Yについてのみ記載しております。又、GR-S SERIESがベースモデルとなっておりますので、相違部分のみ記載しております。詳細についてはGR-S SERIES (68E23241S01) を参照願います。



GR-S SERIES

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Basic Operation of GR-S Mechanism
Disassembly, Assembly and Replacement of Function Parts

Refer to the Service Manual · GR-S SERIES (Part No. 68E23241S01).

NOTE: Due to continuing product improvement, specifications and designs are subject to change without notice.

Cassette Deck Mechanism Assembly Parts List

NOTE:No parts number on parts list are not supplied.

Symbol No.	Index	Part No.	Description
2		04B41345P32	Washer, Lock (M3.1)
3		03S43997P63	Screw, Pan (M1.7X4)
4	3-D	01A90342W02	Assy., Riv. Select Swing
5	2-F	01A71714W01	Assy., Riv. RF Lever A
6	2-E	01A90341W02	Assy., Riv. RF Lever B
7	2-F	41A71781W01	Spring, RF
9	3-D	03C42723U12	Screw, Cup (M2X2.5)
11	2-A	03A80452W02	Screw, F Locks (M2X10.7)
13	2-B	41A31756W01	Spring, Head
16	2-F	44A71747W01	Gear, Sun
17		44A71748W01	Gear, Planet
18	3-F	44A71749W01	Gear, Inner
19	2-F	44A71751W01	Pinion, Eject Base
20	2-F	44A71752W01	Pinion, Eject
21		04B41345P11	Washer, Lock (M1.2)
22	2-G	43A41656W01	Spacer, UHMW-PE
24	3-G	30T65174W07	Wire, Flat 10P
26	5-B	07B71778W01	Holder, Cassette
27	3-C	45A71736W03	Lever, Pack In Switch
28	4-C	43A71775W01	Roller, Plate Base
29	4-C	04B41345P01	Washer, Lock (M1.2)
30	4-B	04B41345P15	Washer, Lock (M1.2)
32	4-C	44A71753W01	Rack, GR-S
33	4-C	41A80634W01	Spring, Rack
34	4-B	01A90346W02	Assy., Riv. Eject Arm (B)
35	4-C	41B63283F11	Spring
36	4-A	01A71712W01	Assy., Riv. Plate Base
37	4-B	45B71750W01	Slider
○ 38		01A90350W01	Assy., Flywheel
● 38		01A71783W10	Assy., Flywheel
39		01A71784W01	Reel
40	3-B	01B30863W01	Assy., Pinch Roller
41	3-B	01B30863W02	Assy., Pinch Roller
42	3-F	44B71726W01	Rack, Mode
45	2-C	45B90320W02	Lever, Select
46	3-E	45A71737W03	Lever, Mode Switch
47	3-E	45A71733W03	Lever, Lock
48	2-E	44A71741W01	Gear, Take Up
49	2-F	44A71742W01	Gear, RF
50		43A71743W01	Guide, Pack
51	2-E	49A71744W01	Pulley, Idler
52	3-D	44A71746W01	Pinion, Motor
53		49A81855W01	Reel, Cap
54	2-F	42A71780W02	Belt
55	2-B	41A10387W02	Spring, Pinch Roller
56	3-E	43A71774W01	Roller, Mode
57		03S44205G30	Screw, Pan (M2.6X4)
● 58	4-D	03A80629W01	Screw, Special (M2.6X6)
59	3-D	04B41345P02	Washer, Lock (M1.7)
● 60	2-F	04S40075G05	Washer, Polyslider (M2.1)
● or	2-F	04T55449W01	Washer, Polyslider (M2.1)
61	3-F	04B41345P23	Washer, Lock (M1.7)
62	3-B	45A90322W02	Lever, Eject Arm A

Miscellaneous

Symbol No.	Index	Part No.	Description
○ 501	2-B	88T95215W02	Head
● 501	2-B	88T75612W03	Head
○ 502	2-C	01V94900W74	Assy., Main Motor (13.2V-95mA)
● 502	2-C	01V74500W16	Assy., Main Motor (13.2V-95mA)
503	3-C	01V74500W23	Assy., Sub Motor (7V-370mA)
504	3-F	51T63433F03	Sensor, Photo ON2170-R2
505	4-F	51T63433F03	Sensor, Photo ON2170-R2
506	2-D	40T15222W01	Switch, Detector (PACK IN)
507	4-F	40T15382W02	Switch, Detector (PAUSE)
508	4-E	40T15382W02	Switch, Detector (MODE)
509	4-F	40T15382W02	Switch, Detector (METAL)

NOTE : ○: For GR75S410 Model Only, ●: For GR75S42Y Model Only, Others : Common.

カセットデッキメカニズム関係部品表

※ 部品表に記入されていない部品は供給されません。

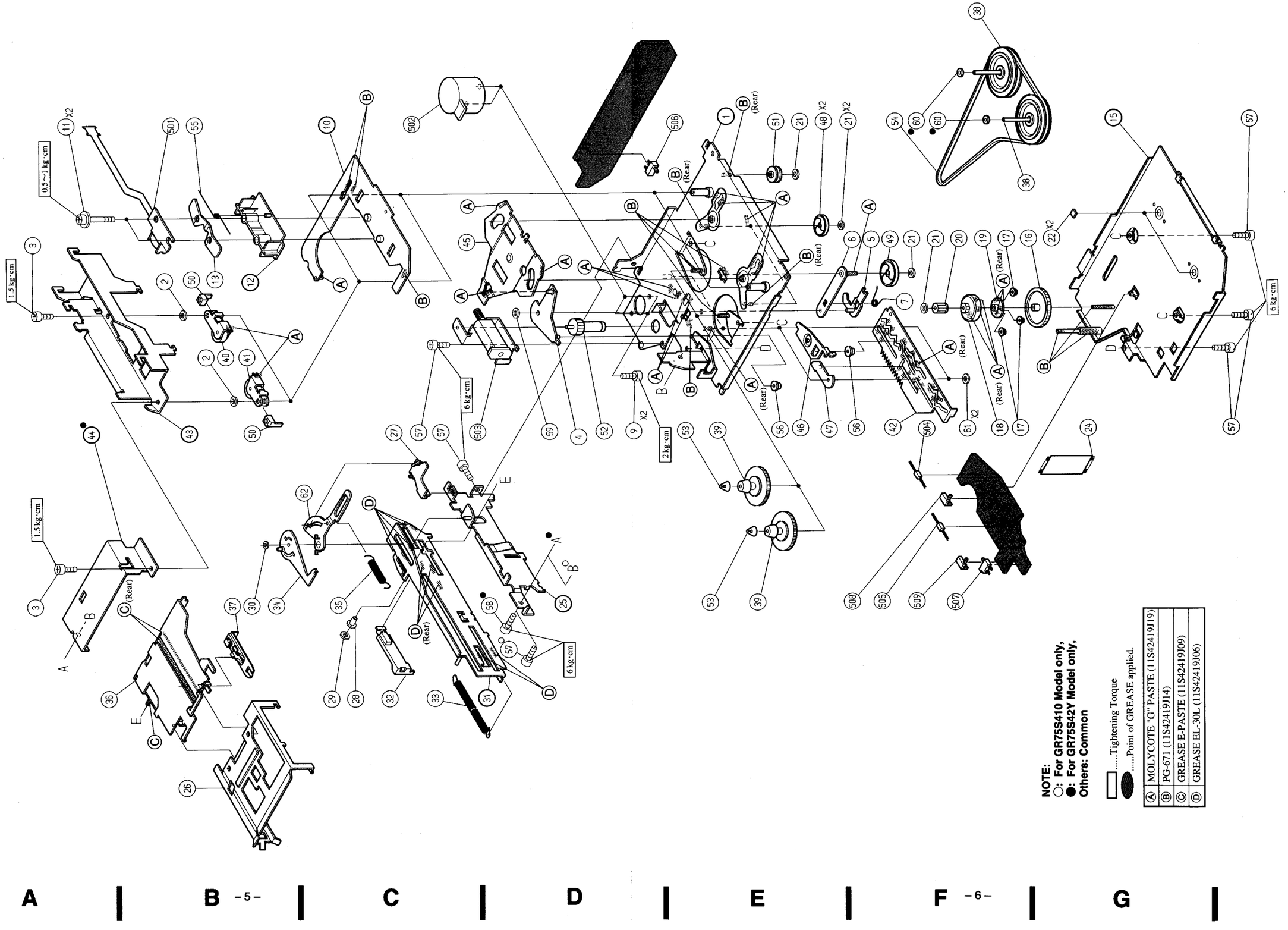
記号	索引	部品番号	部品名	標準卸価格
2		04B41345P32	Washer, Lock (M3.1)	45
3		03S43997P63	Screw, Pan (M1.7X4)	45
4	3-D	01A90342W02	Assy., Riv. Select Swing	—
5	2-F	01A71714W01	Assy., Riv. RF Lever A	120
6	2-E	01A90341W02	Assy., Riv. RF Lever B	—
7	2-F	41A71781W01	Spring, RF	45
9	3-D	03C42723U12	Screw, Cup (M2X2.5)	45
11	2-A	03A80452W02	Screw, F Locks (M2X10.7)	45
13	2-B	41A31756W01	Spring, Head	60
16	2-F	44A71747W01	Gear, Sun	50
17		44A71748W01	Gear, Planet	45
18	3-F	44A71749W01	Gear, Inner	—
19	2-F	44A71751W01	Pinion, Eject Base	100
20	2-F	44A71752W01	Pinion, Eject	90
21		04B41345P11	Washer, Lock (M1.2)	45
22	2-G	43A41656W01	Spacer, UHMW-PE	45
24	3-G	30T65174W07	Wire, Flat 10P	160
26	5-B	07B71778W01	Holder, Cassette	240
27	3-C	45A71736W03	Lever, Pack In Switch	—
28	4-C	43A71775W01	Roller, Plate Base	50
29	4-C	04B41345P01	Washer, Lock (M1.2)	45
30	4-B	04B41345P15	Washer, Lock (M1.2)	45
32	4-C	44A71753W01	Rack, GR-S	130
33	4-C	41A80634W01	Spring, Rack	80
34	4-B	01A90346W02	Assy., Riv. Eject Arm (B)	—
35	4-C	41B63283F11	Spring	45
36	4-A	01A71712W01	Assy., Riv. Plate Base	260
37	4-B	45B71750W01	Slider	45
○ 38		01A90350W01	Assy., Flywheel	380
● 38		01A71783W10	Assy., Flywheel	450
39		01A71784W01	Reel	370
40	3-B	01B30863W01	Assy., Pinch Roller	240
41	3-B	01B30863W02	Assy., Pinch Roller	240
42	3-F	44B71726W01	Rack, Mode	120
45	2-C	45B90320W02	Lever, Select	—
46	3-E	45A71737W03	Lever, Mode Switch	—
47	3-E	45A71733W03	Lever, Lock	—
48	2-E	44A71741W01	Gear, Take Up	45
49	2-F	44A71742W01	Gear, RF	45
50		43A71743W01	Guide, Pack	45
51	2-E	49A71744W01	Pulley, Idler	45
52	3-D	44A71746W01	Pinion, Motor	60
53		49A81855W01	Reel, Cap	45
54	2-F	42A71780W02	Belt	140
55	2-B	41A10387W02	Spring, Pinch Roller	45
56	3-E	43A71774W01	Roller, Mode	50
57		03S44205G30	Screw, Pan (M2.6X4)	45
● 58	4-D	03A80629W01	Screw, Special (M2.6X6)	50
59	3-D	04B41345P02	Washer, Lock (M1.7)	45
● 60	2-F	04S40075G05	Washer, Polyslider (M2.1)	45
● or	2-F	04T55449W01	Washer, Polyslider (M2.1)	45
61	3-F	04B41345P23	Washer, Lock (M1.7)	45
62	3-B	45A90322W02	Lever, Eject Arm A	—

その他の電気部品

記号	索引	部品番号	部品名	標準卸価格
○ 501	2-B	88T95215W02	Head	1,210
● 501	2-B	88T75612W03	Head	1,240
○ 502	2-C	01V94900W74	Assy., Main Motor (13.2V-95mA)	1,460
● 502	2-C	01V74500W16	Assy., Main Motor (13.2V-95mA)	1,480
503	3-C	01V74500W23	Assy., Sub Motor (7V-370mA)	1,500
504	3-F	51T63433F03	Sensor, Photo ON2170-R2	310
505	4-F	51T63433F03	Sensor, Photo ON2170-R2	310
506	2-D	40T15222W01	Switch, Detector (PACK IN)	130
507	4-F	40T15382W02	Switch, Detector (PAUSE)	130
508	4-E	40T15382W02	Switch, Detector (MODE)	130
509	4-F	40T15382W02	Switch, Detector (METAL)	130

注記 ：○ : GR75S410 モデル専用, ● : GR75S42Y モデル専用, その他 : 共通

Exploded View (Cassette Deck Mechanism)



NOTE:
○: For GR75S410 Model only,
●: For GR75S42Y Model only,
Others: Common

.....Tightening Torque

.....Point of GREASE applied.

Ⓐ	MOLYCOTE "G" PASTE (11S42419J19)
Ⓑ	PG-671 (11S42419J14)
Ⓒ	GREASE E-PASTE (11S42419J09)
Ⓓ	GREASE EL-30L (11S42419J06)

ALPINE®

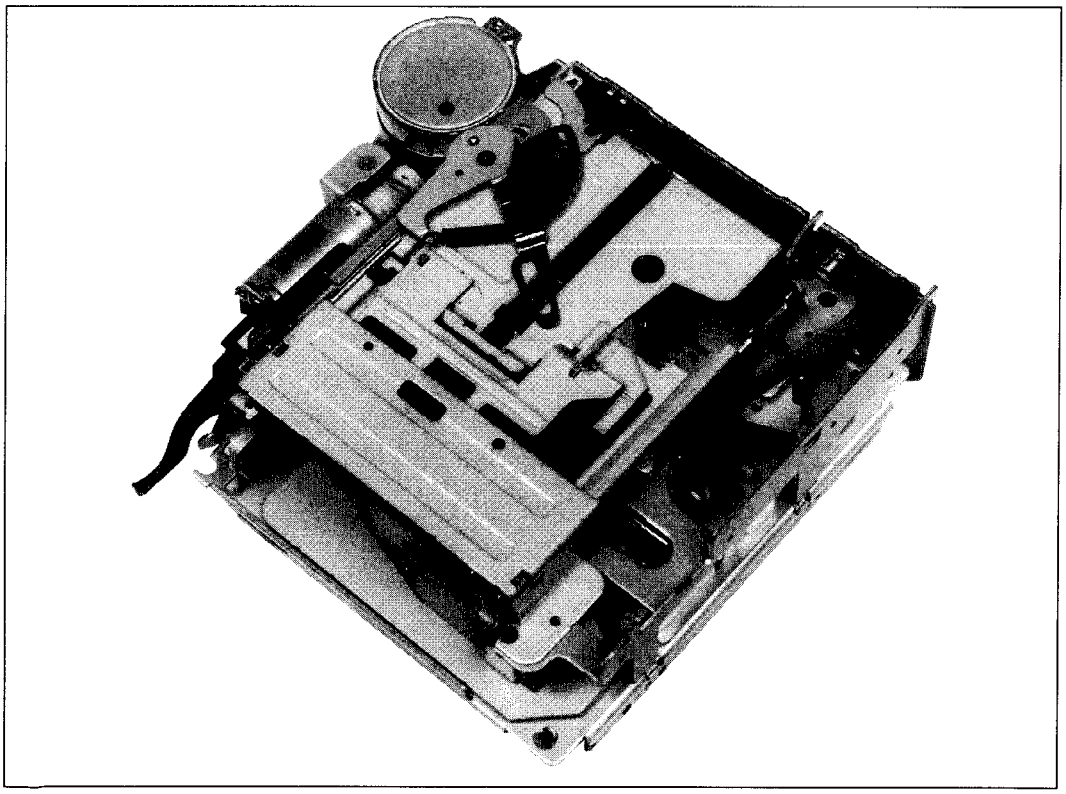
SERVICE MANUAL

Cassette Deck Mechanism

ADDENDUM & REVISED (III)

● This manual is described on GR75S22H/42H only. The GR75S22H/42H is developed from GR-S SERIES. For information that is not mentioned in this service manual, refer to the Service Manual • GR-S SERIES (68E26177S01).

● 当マニュアルはGR75S22H/42Hについてのみ記載しております。又、GR-S SERIESがベースモデルとなっておりますので、相違部分のみ記載しております。詳細についてはGR-S SERIES (68E26177S01) を参照願います。



GR-S SERIES

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Exploded View (Cassette Deck Mechanism) ..... 5 to 6

Basic Operation of GR-S Mechanism
Disassembly, Assembly and Replacement of Function Parts

Refer to the Service Manual · GR-S SERIES (Part No. 68E23241S01).

NOTE: Due to continuing product improvement, specifications and designs are subject to change without notice.

Cassette Deck Mechanism Assembly Parts List

NOTE:No parts number on parts list are not supplied.

Symbol No.		Index	Part No.	Description
	2		04B41345P32	Washer, Lock (M3.1)
	3		03S43997P63	Screw, Pan (M1.7X4)
○	4	3-D	01A90342W01	Assy., Riv. Select Swing
●	4	3-D	01A90342W02	Assy., Riv. Select Swing
○	5	2-F	01A90340W01	Assy., Riv. RF Lever A
●	5	2-F	01A71714W01	Assy., Riv. RF Lever A
○	6	2-E	01A90341W01	Assy., Riv. RF Lever B
●	6	2-E	01A90341W02	Assy., Riv. RF Lever B
	7	2-F	41A71781W01	Spring, RF
	9	3-D	03C42723U12	Screw, Cup (M2X2.5)
	11	2-A	03A80452W02	Screw, F Locks (M2X10.7)
	13	2-B	41A31756W01	Spring, Head
	16	2-F	44A71747W01	Gear, Sun
	17		44A71748W01	Gear, Planet
	18	3-F	44A71749W01	Gear, Inner
	19	2-F	44A71751W01	Pinion, Eject Base
	20	2-F	44A71752W01	Pinion, Eject
	21		04B41345P11	Washer, Lock (M1.2)
	22	2-G	43A41656W01	Spacer, UHMW-PE
	24	3-G	30T65174W07	Wire, Flat 10P
○	26	5-C	07B40012W01	Holder, Cassette
●	26	5-B	07B71778W01	Holder, Cassette
○	27	3-C	45A71736W02	Lever, Pack In Switch
●	27	3-C	45A71736W03	Lever, Pack In Switch
	28	4-C	43A71775W01	Roller, Plate Base
	29	4-C	04B41345P01	Washer, Lock (M1.2)
	30	4-B	04B41345P15	Washer, Lock (M1.2)
	32	4-C	44A71753W01	Rack, GR-S
	33	4-C	41A80634W01	Spring, Rack
○	34	4-B	01A90346W01	Assy., Riv. Eject Arm (B)
●	34	4-B	01A90346W02	Assy., Riv. Eject Arm (B)
	35	4-C	41B63283F11	Spring
○	36	4-A	01A40024W03	Assy., Riv. Plate Base
●	36	4-A	01A71712W01	Assy., Riv. Plate Base
	37	4-B	45B71750W01	Slider
	38		01A90350W01	Assy., Flywheel
	39		01A71784W01	Reel
	40	3-B	01B30863W01	Assy., Pinch Roller
	41	3-B	01B30863W02	Assy., Pinch Roller
○	42	3-F	44B90318W01	Rack, Mode B
●	42	3-F	44B71726W01	Rack, Mode
○	45	2-C	45B90320W01	Lever, Select
●	45	2-C	45B90320W02	Lever, Select
○	46	3-E	45A71737W02	Lever, Mode Switch
●	46	3-E	45A71737W03	Lever, Mode Switch
○	47	3-E	45A71733W02	Lever, Lock
●	47	3-E	45A71733W03	Lever, Lock
	48	2-E	44A71741W01	Gear, Take Up
	49	2-F	44A71742W01	Gear, RF
	50		43A71743W01	Guide, Pack
	51	2-E	49A71744W01	Pulley, Idler
	52	3-D	44A71746W01	Pinion, Motor
	53		49A81855W01	Reel, Cap
	54	2-F	42A71780W02	Belt
	55	2-B	41A10387W02	Spring, Pinch Roller
	56		43A71774W01	Roller, Mode
	57		03S44205G30	Screw, Pan (M2.6X4)
	58	4-D	03A80629W01	Screw, Special (M2.6X6)
	59	3-D	04B41345P02	Washer, Lock (M1.7)
	61	3-F	04B41345P23	Washer, Lock (M1.7)
○	62	3-B	45A90322W01	Lever, Eject Arm A
●	62	3-B	45A90322W02	Lever, Eject Arm A

Miscellaneous

	501	2-B	88T75612W03	Head
○	502	2-C	01V74500W16	Assy., Main Motor (13.2V-95mA)
●	502	2-C	01V94900W74	Assy., Main Motor (13.2V-95mA)
○	503	3-C	01V91700W81	Assy., Sub Motor (7V-370mA)
●	503	3-C	01V11700Y92	Assy., Sub Motor (7V-370mA)
	504	3-F	51T63433F03	Sensor, Photo ON2170-R2
	505	4-F	51T63433F03	Sensor, Photo ON2170-R2
	506	2-D	40T15222W01	Switch, Detector (PACK IN)
	507	4-F	40T15382W02	Switch, Detector (PAUSE)
	508	4-E	40T15382W02	Switch, Detector (MODE)
	509	4-F	40T15382W02	Switch, Detector (METAL)

NOTE : ○: For GR75S22H Model Only, ●: For GR75S42H Model Only, Others : Common.

カセット・デッキ・メカニズム関係部品表

※ 部品表に記入されていない部品は供給されません。

記号	索引	部品番号	部品名	標準卸価格
	2	04B41345P32	Washer, Lock (M3.1)	45
	3	03S43997P63	Screw, Pan (M1.7X4)	45
○	4	3-D 01A90342W01	Assy., Riv. Select Swing	—
●	4	3-D 01A90342W02	Assy., Riv. Select Swing	—
○	5	2-F 01A90340W01	Assy., Riv. RF Lever A	160
●	5	2-F 01A71714W01	Assy., Riv. RF Lever A	120
○	6	2-E 01A90341W01	Assy., Riv. RF Lever B	—
●	6	2-E 01A90341W02	Assy., Riv. RF Lever B	—
	7	2-F 41A71781W01	Spring, RF	45
	9	3-D 03C42723U12	Screw, Cup (M2X2.5)	45
	11	2-A 03A80452W02	Screw, F Locks (M2X10.7)	45
	13	2-B 41A31756W01	Spring, Head	60
	16	2-F 44A71747W01	Gear, Sun	50
	17	44A71748W01	Gear, Planet	45
	18	3-F 44A71749W01	Gear, Inner	—
	19	2-F 44A71751W01	Pinion, Eject Base	100
	20	2-F 44A71752W01	Pinion, Eject	90
	21	04B41345P11	Washer, Lock (M1.2)	45
	22	2-G 43A41656W01	Spacer, UHMW-PE	45
	24	3-G 30T65174W07	Wire, Flat 10P	160
○	26	5-C 07B40012W01	Holder, Cassette	280
●	26	5-B 07B71778W01	Holder, Cassette	240
○	27	3-C 45A71736W02	Lever, Pack In Switch	—
●	27	3-C 45A71736W03	Lever, Pack In Switch	—
	28	4-C 43A71775W01	Roller, Plate Base	50
	29	4-C 04B41345P01	Washer, Lock (M1.2)	45
	30	4-B 04B41345P15	Washer, Lock (M1.2)	45
	32	4-C 44A71753W01	Rack, GR-S	130
	33	4-C 41A80634W01	Spring, Rack	80
○	34	4-B 01A90346W01	Assy., Riv. Eject Arm (B)	—
●	34	4-B 01A90346W02	Assy., Riv. Eject Arm (B)	—
	35	4-C 41B63283F11	Spring	45
○	36	4-A 01A40024W03	Assy., Riv. Plate Base	240
●	36	4-A 01A71712W01	Assy., Riv. Plate Base	260
	37	4-B 45B71750W01	Slider	45
	38	01A90350W01	Assy., Flywheel	380
	39	01A71784W01	Reel	370
	40	3-B 01B30863W01	Assy., Pinch Roller	240
	41	3-B 01B30863W02	Assy., Pinch Roller	240
○	42	3-F 44B90318W01	Rack, Mode B	160
●	42	3-F 44B71726W01	Rack, Mode	120
○	45	2-C 45B90320W01	Lever, Select	—
●	45	2-C 45B90320W02	Lever, Select	—
○	46	3-E 45A71737W02	Lever, Mode Switch	—
●	46	3-E 45A71737W03	Lever, Mode Switch	—
○	47	3-E 45A71733W02	Lever, Lock	—
●	47	3-E 45A71733W03	Lever, Lock	—
	48	2-E 44A71741W01	Gear, Take Up	45
	49	2-F 44A71742W01	Gear, RF	45
	50	43A71743W01	Guide, Pack	45
	51	2-E 49A71744W01	Pulley, Idler	45
	52	3-D 44A71746W01	Pinion, Motor	60
	53	49A81855W01	Reel, Cap	45
	54	2-F 42A71780W02	Belt	140
	55	2-B 41A10387W02	Spring, Pinch Roller	45
	56	43A71774W01	Roller, Mode	50
	57	03S44205G30	Screw, Pan (M2.6X4)	45
	58	4-D 03A80629W01	Screw, Special (M2.6X6)	50
	59	3-D 04B41345P02	Washer, Lock (M1.7)	45
	61	3-F 04B41345P23	Washer, Lock (M1.7)	45
○	62	3-B 45A90322W01	Lever, Eject Arm A	—
●	62	3-B 45A90322W02	Lever, Eject Arm A	—

その他の電気部品

記号	索引	部品番号	部品名	標準卸価格
	501	2-B 88T75612W03	Head	1,240
○	502	2-C 01V74500W16	Assy., Main Motor (13.2V-95mA)	1,460
●	502	2-C 01V94900W74	Assy., Main Motor (13.2V-95mA)	1,480
○	503	3-C 01V91700W81	Assy., Sub Motor (7V-370mA)	1,440
●	503	3-C 01V11700Y92	Assy., Sub Motor (7V-370mA)	1,460
	504	3-F 51T63433F03	Sensor, Photo ON2170-R2	310
	505	4-F 51T63433F03	Sensor, Photo ON2170-R2	310
	506	2-D 40T15222W01	Switch, Detector (PACK IN)	130
	507	4-F 40T15382W02	Switch, Detector (PAUSE)	130
	508	4-E 40T15382W02	Switch, Detector (MODE)	130
	509	4-F 40T15382W02	Switch, Detector (METAL)	130

注記：○：GR75S22Hモデル専用，　●：GR75S42Hモデル専用，　その他：共通

Exploded View (Cassette Deck Mechanism)